

# LC-13B6U LC-15B6U

LIQUID CRYSTAL TELEVISION TÉLÉVISEUR ACL TELEVISOR CON PANTALLA DE CRISTAL LÍQUIDO TELEVISOR DE CRISTAL LÍQUIDO

# AQUOS

OPERATION MANUAL MODE D'EMPLOI MANUAL DE OPERACIÓN MANUAL DE OPERAÇÃO







Products that have earned the ENERGY STAR<sup>®</sup> are designed to protect the environment through superior energy efficiency.

# LC-13B6U LC-15B6U

# LIQUID CRYSTAL TELEVISION

# ENGLISH

# **OPERATION MANUAL**

IMPORTANT:

To aid reporting in case of loss or theft, please record the TV's model and serial numbers in the space provided. The numbers are located at the rear of the TV.

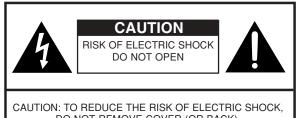
Model No.:

Serial No.:

U.S.A. ONLY

# **IMPORTANT INFORMATION**

# **WARNING:** TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.



DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrow-head symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within a triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

# **IMPORTANT INFORMATION (Continued)**

# **CAUTION:** TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

# **CAUTION:**

DO NOT PLACE THIS PRODUCT ON AN UNSTABLE CART, STAND, TRIPOD, BRACKET, OR TABLE. THE PRODUCT MAY FALL CAUSING SERIOUS PERSONAL INJURY AND SERIOUS DAMAGE TO THE PRODUCT. USE ONLY WITH A CART, STAND, TRIPOD, BRACKET, OR TABLE RECOMMENDED BY THE MANUFACTURER OR SOLD WITH THE PRODUCT. FOLLOW THE MANUFACTURER'S INSTRUCTIONS WHEN INSTALLING THE PRODUCT AND USE MOUNTING ACCESSORIES RECOMMENDED BY THE MANUFACTURER. A PRODUCT AND CART COMBINATION SHOULD BE MOVED WITH CARE. QUICK STOPS, EXCESSIVE FORCE, AND UNEVEN SURFACES MAY CAUSE THE PRODUCT AND CART COMBINATION TO OVERTURN.



WARNING: FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment.

"Note to CATV system installer: This reminder is provided to call the CATV system installer's attention to Article 820-40 of the National Electrical Code that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical."

This product utilizes tin-lead solder, and fluorescent lamp containing a small amount of mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: www.eia.org

# Trademark

• Micronas® VOICE is a Speech Enhancement and Intelligibility Processing technology by Micronas GmbH.

· Micronas is a trademark of Micronas GmbH.

# **DEAR SHARP CUSTOMER**

Thank you for your purchase of the Sharp Liquid Crystal Television. To ensure safety and many years of trouble-free operation of your product, please read the Important Safety Precautions carefully before using this product.

# **IMPORTANT SAFETY PRECAUTIONS**

Electricity is used to perform many useful functions, but it can also cause personal injuries and property damage if improperly handled. This product has been engineered and manufactured with the highest priority on safety. However, improper use can result in electric shock and/or fire. In order to prevent potential danger, please observe the following instructions when installing, operating and cleaning the product. To ensure your safety and prolong the service life of your LCD color TV product, please read the following precautions carefully before using the product.

- Read instructions—All operating instructions must be read and understood before the product is operated.
- Keep this manual in a safe place—These safety and operating instructions must be kept in a safe place for future reference.
- Observe warnings—All warnings on the product and in the instructions must be observed closely.
- Follow instructions—All operating instructions must be followed.
- Attachments—Do not use attachments not recommended by the manufacturer. Use of inadequate attachments can result in accidents.
- Power source—This product must operate on a power source specified on the specification label. If you are not sure of the type of power supply used in your home, consult your dealer or local power company. For units designed to operate on batteries or another power source, refer to the operating instructions.
- Power cord protection—The power cords must be routed properly to prevent people from stepping on them or objects from resting on them. Check the cords at the plugs and product.
- If the AC adapter is misplaced or needs to be replaced, obtain the same type of adapter from a SHARP service center or your dealer.
- Overloading—Do not overload AC outlets or extension cords. Overloading can cause fire or electric shock.
- Entering of objects and liquids—Never insert an object into the product through vents or openings. High voltage flows in the product, and inserting an object can cause electric shock and/or short internal parts. For the same reason, do not spill water or liquid on the product.
- Servicing—Do not attempt to service the product yourself. Removing covers can expose you to high voltage and other dangerous conditions. Request a qualified service person to perform servicing.
- Repair—If any of the following conditions occurs, unplug the power cord from the AC outlet, and request a qualified service person to perform repairs.
  - a. When the power cord or plug is damaged.
  - b. When a liquid was spilled on the product or when objects have fallen into the product.
  - c. When the product has been exposed to rain or water.
  - d. When the product does not operate properly as described in the operating instructions. Do not touch the controls other than those described in the operating instructions. Improper adjustment of controls not described in the instructions can cause damage, which often requires extensive adjustment work by a qualified technician.
  - e. When the product has been dropped or damaged.
  - f. When the product displays an abnormal condition. Any noticeable abnormality in the product indicates that the product needs servicing.
- Replacement parts—In case the product needs replacement parts, make sure that the service person uses replacement parts specified by the manufacturer, or those with the same characteristics and performance as the original parts. Use of unauthorized parts can result in fire, electric shock and/or other danger.
- Safety checks—Upon completion of service or repair work, request the service technician to perform safety checks to ensure that the product is in proper operating condition.
- Wall or ceiling mounting—When mounting the product on a wall or ceiling, be sure to install the product according to the method recommended by the manufacturer.
- Polarization—This AC adapter may be equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet.

Do not defeat the safety purpose of the polarized plug.

# **IMPORTANT SAFETY PRECAUTIONS (Continued)**

- Cleaning—Unplug the power cord from the AC outlet before cleaning the product. Use a damp cloth to clean the product. Do not use liquid cleaners or aerosol cleaners.
- Water and moisture—Do not use the product near water, such as bathtub, washbasin, kitchen sink and laundry tub, swimming pool and in a wet basement.
- Stand—Do not place the product on an unstable cart, stand, tripod or table. Placing the product on an unstable base can cause the product to fall, resulting in serious personal injuries as well as damage to the product. Use only a cart, stand, tripod, bracket or table recommended by the manufacturer or sold with the product. When mounting the product on a wall, be sure to follow the manufacturer's instructions. Use only the mounting hardware recommended by the manufacturer.
- When relocating the product placed on a cart, it must be moved with utmost care. Sudden stops, excessive force and uneven floor surface can cause the product to fall from the cart.
- Ventilation—The vents and other openings in the cabinet are designed for ventilation. Do not cover or block these vents and openings since insufficient ventilation can cause overheating and/or shorten the life of the product. Do not place the product on a bed, sofa, rug or other similar surface, since they can block ventilation openings. This product is not designed for built-in installation; do not place the product in an enclosed place such as a bookcase or rack, unless proper ventilation is provided or the manufacturer's instructions are followed.
- The Liquid Crystal panel used in this product is made of glass. Therefore, it can break when the product is dropped or applied with impact. Be careful not to be injured by broken glass pieces in case the Liquid Crystal panel breaks.
- Heat sources—Keep the product away from heat sources such as radiators, heaters, stoves and other heat-generating products (including amplifiers).
- The Liquid Crystal panel is a very high technology product with 921,600 thin film transistors, giving you fine picture details.

Occasionally, a few non-active pixels may appear on the screen as a fixed point of blue, green or red. Please note that this does not affect the performance of your product.













# **IMPORTANT SAFETY PRECAUTIONS (Continued)**

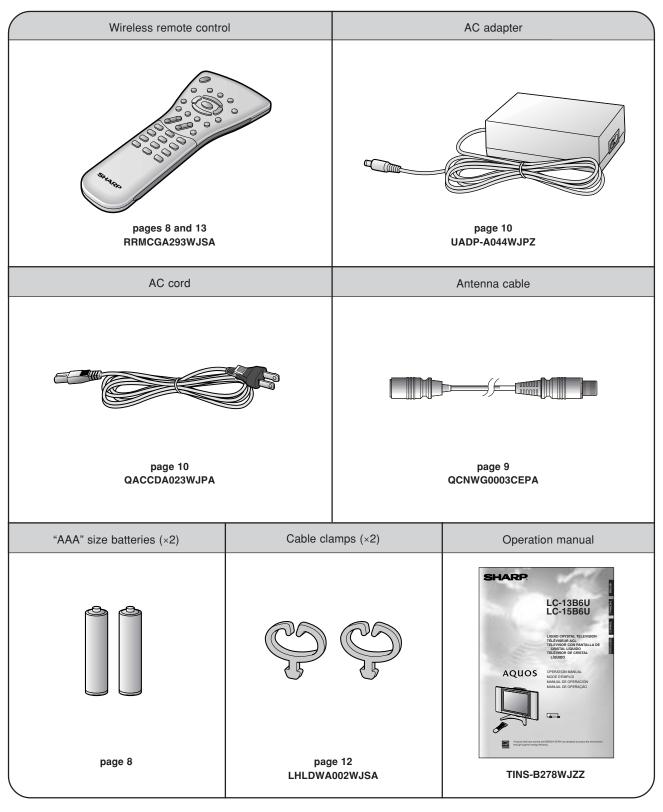
If an outside antenna is connected to the television equipment, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE ANTENNA LEAD IN WIRE GROUND CLAMP ANTENNA DISCHARGE UNIT ELECTRIC (NEC SECTION 810-20) SERVICE EQUIPMENT GROUNDING CONDUCTORS (NEC SECTION 810-21) GROUND CLAMPS POWER SERVICE GROUNDING ELECTRODE SYSTEM NEC—NATIONAL ELECTRICAL CODE (NEC ART 250, PART H) Lightning – For added protection for this television equipment during a lightning ZZZ 11 storm, or when it is left unattended and unused for long period of time, unplug it 0 from the wall outlet and disconnect the antenna. This will prevent damage to the equipment due to lightning and power-line surges. Power Lines – An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall 2 into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal. To prevent fire, never place any type of candle or flames on the top or near the TV set. To prevent fire or shock hazard, do not expose this products to dripping or splashing. No objects filled with liquids, such as vases, should be placed on the products. ■ To prevent fire or shock hazard, do not place the AC power cord under the TV set or other heavy items.

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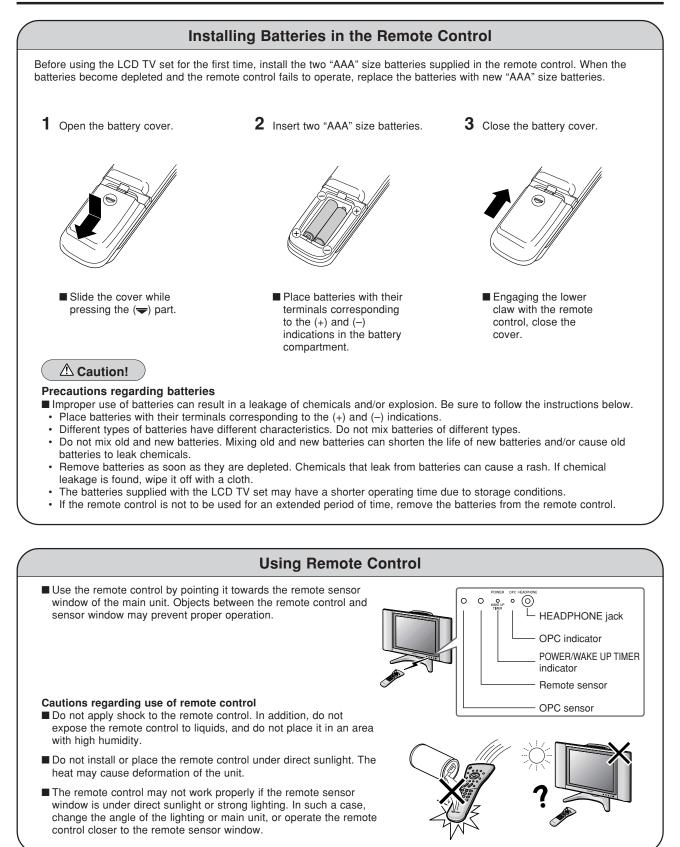
Make sure the following accessories are provided with the LCD TV set.

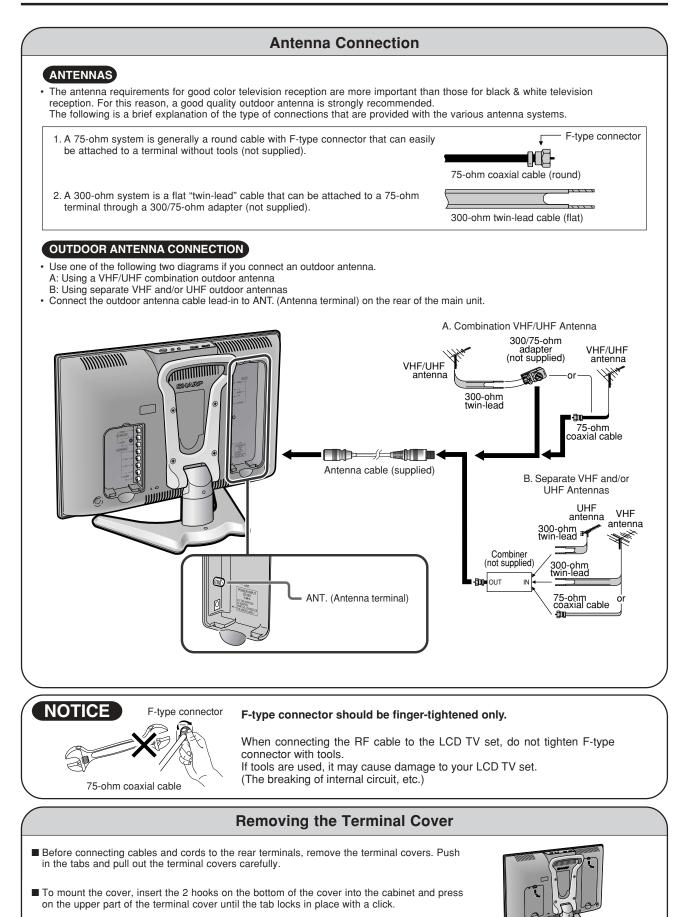


NOTE

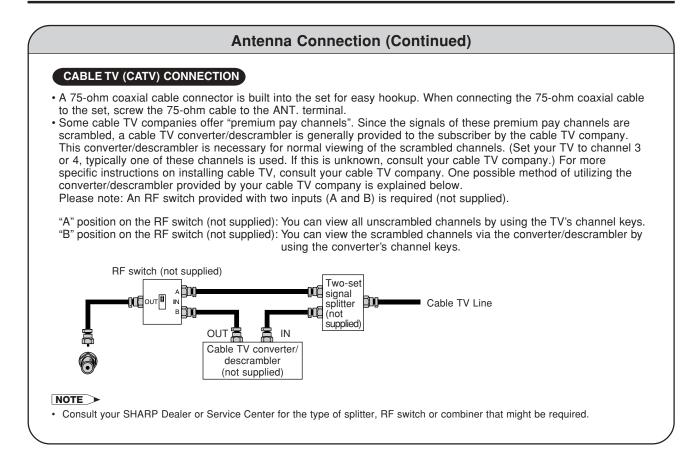
6100 Blue Lagoon Drive, Suite 230, Miami, Florida 33126, U.S.A.

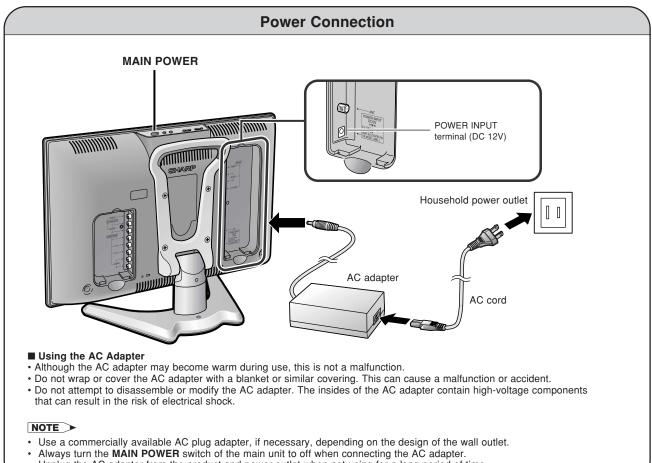
The AC cord enclosed in this product is for 110-125V. In using it on the 125-240V AC, please consult to the following.
 SHARP ELECTRONICS CORPORATION





(US) 9



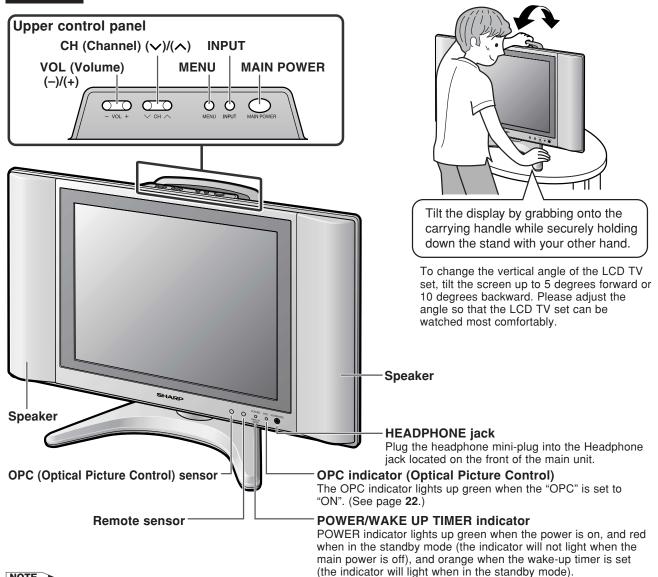


• Unplug the AC adapter from the product and power outlet when not using for a long period of time.

# Part Names of Main Unit

The examples used throughout this manual are based on the LC-15B6U model.

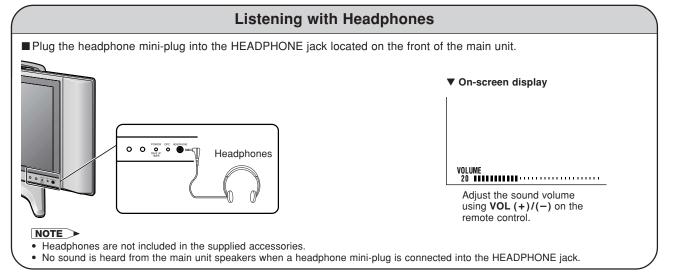
### Controls



How to adjust the angle

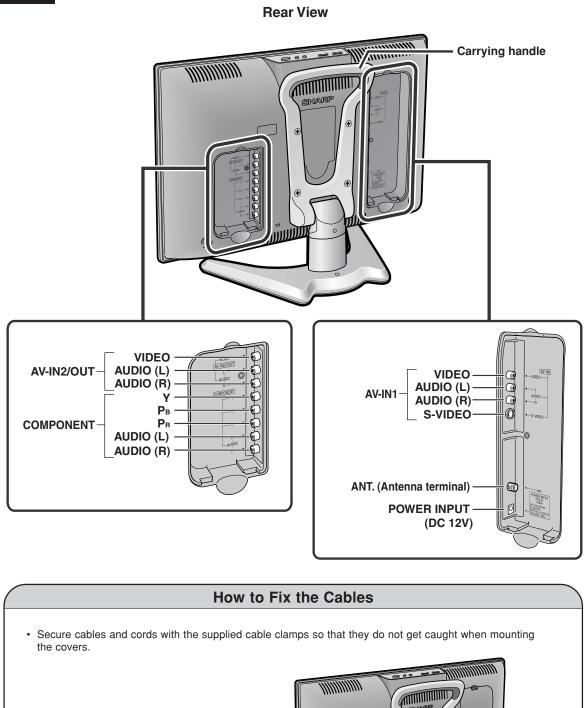
NOTE >

• INPUT, CH ()/(), VOL (-)/(+) and MENU on the main unit have the same functions as the same buttons on the remote control. Fundamentally, this operation manual provides a description based on operation using the remote control.



### (US) 11

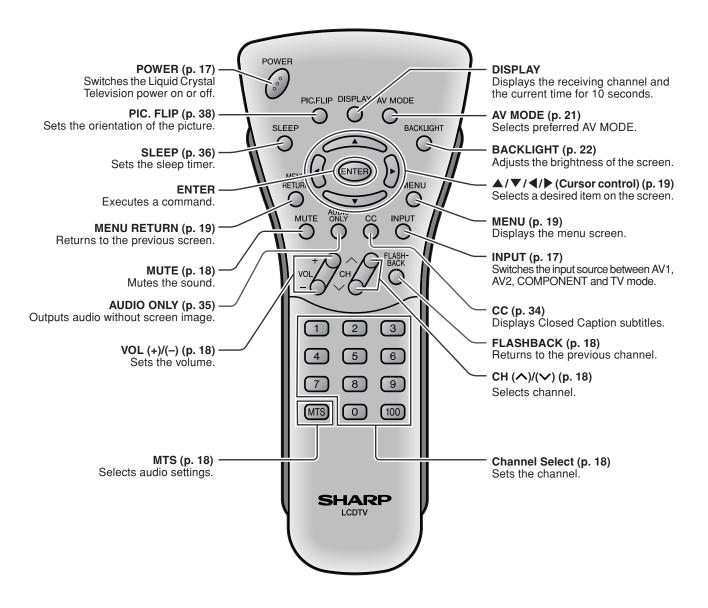
# Terminals



6

Cable clamps (x2)

# **Part Names of Remote Control**



# **TV Signals in Your Region**

This product is factory set to comply with the TV broadcasting system in the United States. For Brazil, Argentina and Uruguay, set the color system according to the country before using this product by following the table below.

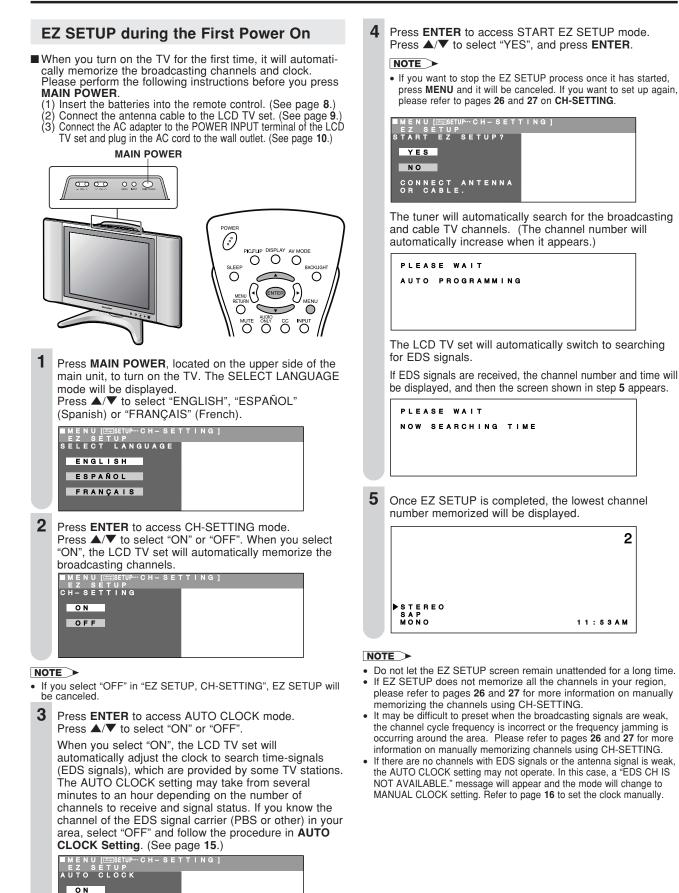
Country TV broadcasting		Factory setting of	User setting	
Country	system	TV	Video	TV/Video
U.S.A.	Color: NTSC TV ch: US ch	NTSC (N358) US ch	NTSC (N358) US ch	Not required or N/A
Canada, Mexico,	Color: NTSC	NTSC (N358)	NTSC (N358)	Not required or N/A
Latin America	TV ch: US ch	US ch	US ch	
Brazil	Color: PAL-M	NTSC (N358)	NTSC (N358)	Set color system to
	TV ch: US ch	US ch	US ch	PAL-M (see page 27)
Argentina,	Color: PAL-N	NTSC (N358)	NTSC (N358)	Set color system to PAL-N (see page 27)
Uruguay	TV ch: US ch	US ch	US ch	

#### NOTE

The 3 Dimensional Y/C separation circuit\* only works when the color system is set to N358 in TV mode and Video mode.

\* The 3 Dimensional Y/C separation circuit is used to remove flickering and color bleeding.

\* The 3 Dimensional Y/C separation circuit does not function when S-VIDEO or COMPONENT signals are played.



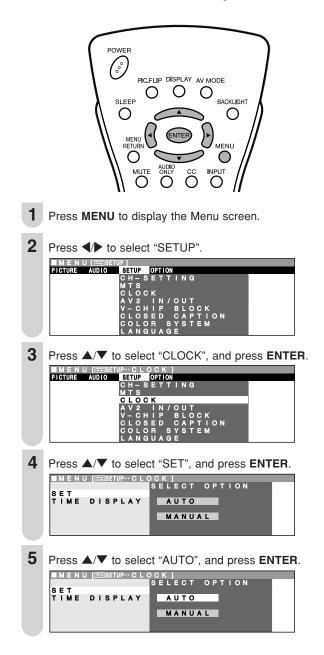
2

11:53AM

OFF

# AUTO CLOCK Setting

There are two methods of setting the clock: AUTO CLOCK and MANUAL CLOCK. AUTO CLOCK uses EDS signals, which are provided by some TV stations, to automatically adjust the clock. MANUAL CLOCK sets the clock manually in areas where no channel carries EDS signals.



● If you do not know the channel that carries EDS signals in your area, select "EDS CH" to "AUTO" and press ENTER. If you know the channel of the EDS signal carrier in your area, press ◀/ to select channel and press ENTER. Set the EDS CH and press ENTER.



 When set to "AUTO CLOCK", the time is acquired automatically when MAIN POWER is turned OFF. (This function will not work when EDS CH is not set.)



CLOCK:

The AUTO CLOCK setting may take from several minutes to an hour depending on the number of channels to receive and signal status.

• EDS CH < AUTO >:

If there are no channels with EDS signals or the antenna signal is weak, the AUTO CLOCK Setting may not operate. In such a case, the message "EDS CH IS NOT AVAILABLE." appears, and the CLOCK setting screen (in step 4 in this page) is displayed. Refer to **MANUAL CLOCK Setting** on page **16** to set the clock manually.

EDS CH < Not AUTO >:

If the channel you have selected for "EDS CH" is wrong or the EDS signal carrier is weak, or when there is no broadcast, the AUTO CLOCK Setting may not operate. In such cases, the message "EDS CH (XXX) EDS DATA IS NOT AVAILABLE." appears, and the CLOCK setting screen (in step 4) is displayed as in the case with EDS CH < AUTO >. Follow step 4 and repeat the AUTO CLOCK Setting procedure.

 If broadcasting channels are not memorized, EDS signals cannot be received even when the "EDS CH" is set to "AUTO". In this case, try EZ SETUP again. (See page 26.)

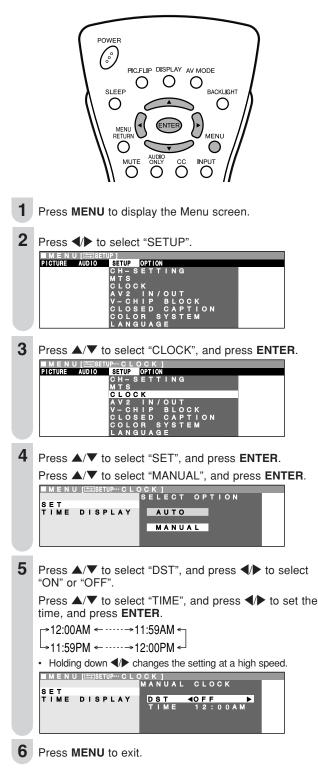
#### Backup

The clock function is maintained for about 10 minutes even when the AC adapter has been shut off due to a power outage or when moving the LCD TV set. (Since about 30 minutes are required to charge the backup power supply, it may not be possible to maintain the clock function if the charging time is excessively short.)

If the clock setting has been reset, refer to **Setting the CLOCK** on pages **15** and **16**.

# MANUAL CLOCK Setting

If there are no channels with EDS signals, set the clock manually using MANUAL CLOCK.



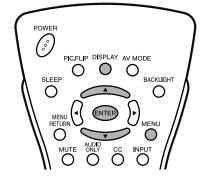
### NOTE

- Make sure to press ENTER after adjusting the time. Otherwise, the time will not be set.
- When DST is set to "ON", the time entered is forwarded by 1 hour.
  Please be sure to set "DST" before setting "TIME".

**Daylight Saving Time (DST) Adjustment** The Daylight Saving-Time changes as shown below, set the DST to "ON" to forward the clock by 1 hour. To rewind the clock by 1 hour, set the DST to "OFF". (Spring) On the first Sunday in April DST starts. 1:00AM 2:00AM Advances 1 hour. 4:00AM 3:00AM (Autumn) On the last Sunday in October DST finishes. 1:00AM 2:00AM Rewinds 1 hour. 2:00AM 1:00AM

## TIME DISPLAY

You can display the current time on the screen.



- 1 Repeat steps 1 to 3 of MANUAL CLOCK Setting on this page.
- **2** Press  $\blacktriangle/\blacksquare$  to select "TIME DISPLAY", and press **ENTER**.

MENU [ESETUP… CLO	оскј
	SELECT OPTION
SET	
TIME DISPLAY	ON
	OFF

**3** Press ▲/▼ to select "ON" or "OFF", and press ENTER.

Selected item	Description
ON	Displays the current time on the screen.
OFF	No display

4 Press **MENU** to exit.

#### NOTE

• When you press **DISPLAY**, the current time is displayed for about 10 seconds.

# Turning On and Off the Main Power



POWER/WAKE UP TIMER indicator

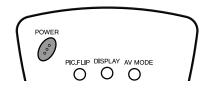
 Press MAIN POWER. The POWER/WAKE UP TIMER indicator instantly changes from red to green and the LCD TV set is turned on.

On-screen	display
▶STEREO SAP MONO	

NOTE

- The On-screen display disappears after a few seconds.
- To turn off the main power, press MAIN POWER again.

Standby



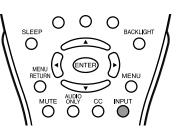
#### To turn off the LCD TV set

Press **POWER**. The POWER/WAKE UP TIMER indicator will turn red.

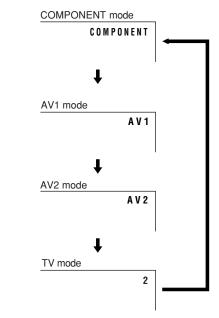
#### To turn the LCD TV set back on

Press **POWER** again. The POWER/WAKE UP TIMER indicator will turn green.

# Switching the Input Modes (AV1/AV2/ COMPONENT/TV)



- **1** Turn on the power of the connected video equipment.
- **2** Press **INPUT** to select the applicable input source. The screen changes in order of COMPONENT, AV1, AV2 and TV mode each time **INPUT** is pressed.



### NOTE

 COMPONENT: Used for video equipment connected to the COMPONENT input terminals.

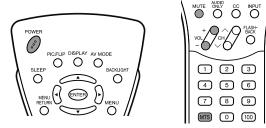
• AV1: Used for video equipment connected to the AV-IN1 input terminals.

The S-video input terminal is additionally provided for the AV-IN1 input. If both the S-video terminal and normal video terminals are connected with cables, the S-video input terminal takes priority.

 AV2: AV2 mode is used to adjust the preset settings and IN or OUT can be selected. AV2 indication is not displayed when OUT is selected. (For details on setting AV2 IN/OUT, see page 27.)

### Sound Volume

#### To adjust the volume



• Press VOL (+) to increase the sound volume. The bar indicator shifts right.

#### 

• Press VOL (-) to decrease the sound volume. The bar indicator shifts left.



#### To mute the sound

 Press MUTE to temporarily turn off the sound. The MUTE mark v is displayed for 4 seconds.



 Press MUTE or VOL (+)/(-) to turn the sound back to the previous level.

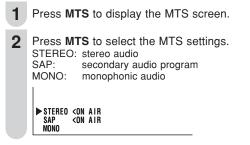
The mute function is automatically turned off when any of the following buttons are pressed: **POWER**, **MUTE**, **VOL** (+)/(–) or **MTS**.



#### NOTE

- When VOL (+)/(-) is pressed in the Mute mode, the sound turns on and the volume indicator is displayed.
- The Mute function is cancelled when POWER is pressed.

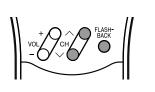
#### ■ To select MTS (Multichannel TV Sound)

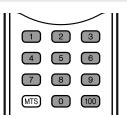


#### NOTE

"ON AIR" appears when a STEREO or SAP broadcast is being aired.

## **Changing Channels**





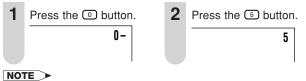
# You can select channels using **Channel Select** or **CH** $(\land)/(\checkmark)$ .

• This LCD TV set allows you to select up to 125 channels (1 to 125). To select a channel, enter a 2- or 3-digit number.

#### Using Channel Select

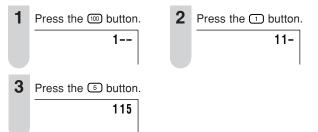
When selecting the channel using **Channel Select**, complete input of the channel number by holding down the button for the last digit for a moment.

#### **To select a 1- or 2-digit channel number (e.g., Channel 5):** Complete the following procedure within 4 seconds.



• When selecting a 1-digit channel number, do not fail to press the 
<sup>(1)</sup> button first.

#### **To select a 3-digit channel number (e.g., Channel 115):** Complete the following procedure within 4 seconds.



#### NOTE

• The 3-digit channel number can be selected only when the receiving mode is set to CABLE in CH-SETTING. (For details on setting the receiving mode, see page **26**.)

```
Changing channels with CH (\wedge)/(\checkmark) on the remote control
Air: Press CH (\wedge) and the channels change in the order shown below:
2\gamma \ 3\gamma \ \dots \gamma \ 68\gamma \ 69\gamma \ 2\gamma \ 3\gamma \ \dots
Press CH (\checkmark) and the channels change in the order shown below:
3\gamma \ 2\gamma \ 69\gamma \ 68\gamma \ \dots \gamma \ 3\gamma \ 2\gamma \ \dots
Cable: Press CH (\wedge) and the channels change in the order shown below:
1\gamma \ 2\gamma \ 3\gamma \ \dots \gamma \ 125\gamma \ 1\gamma \ 2\gamma \ 3\gamma \ \dots
Press CH (\checkmark) and the channels change in the order shown below:
3\gamma \ 2\gamma \ 1\gamma \ 125\gamma \ \dots \gamma \ 3\gamma \ 2\gamma \ 1\gamma \ \dots
```

#### Using FLASHBACK

- Press FLASHBACK to switch the currently tuned channel to the previously tuned channel.
- Press FLASHBACK again to switch back to the currently tuned channel.

### **Selecting Menu Items**

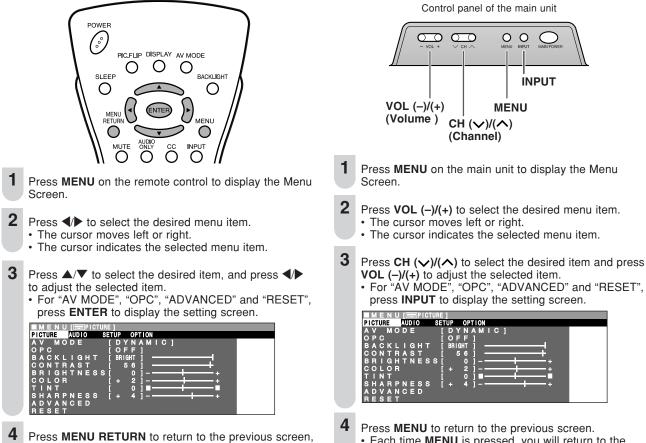
or press MENU to exit.

The menus can be used to adjust the various settings of your LCD TV set. Select the desired menu item by following the steps below. See the next page for each Menu screen.

#### NOTE

- The items displayed differ depending on the setting conditions.
- The item selected is displayed in yellow.
- · Settings most recently adjusted will be saved in memory.

#### Using menus



Press MENU to return to the previous screen.
 Each time MENU is pressed, you will return to the screen previously shown.

Using direct control menu

#### Menu setting screens

For details on setting each menu item, refer to the page number indicated below.

NOTE

AUDIO

SE

• The illustrations and on-screen displays in this manual are for explanation purposes and may vary slightly from the actual appearance.

Depending on the setting condition, such as an input mode, it may not be possible to adjust or set some items. In such cases, a message will be displayed on the menu setting screen.

PICTURE	MENU[       PICTURE]         PICTURE       AUDIO         SETUP       OPTION         AV       MODE         DYNAMIC]         OPC       [OFFF]         BACKLIGHT       [BRGHT]         CONTRAST       [56]         BRIGHTNESS[0]      ++         COLOR       [+2]         SHARPNESS       [+4]         SHARPNEST       F	AV MODE OPC BACKLIGHT CONTRAST BRIGHTNESS COLOR TINT SHARPNESS ADVANCED RESET	
	♦ SELECT ENTER : ENTER RETURN : BACK MENU : EXIT	SELECT ENTER : ENTER RETURN :	BACK MENU : EXIT

The bar above is an operational guide for the remote control. The bar will change in accordance with each menu setting screen.

PICTURE	AUDIO	SETUP	OPTION		
	TREB		0	1	
	BASS		ō	i – ——	
	BALA			і L ———	
	WIDE				-
			ЕМРНИ	ASIS	
	RESE				

TREBLE BASS BALANCE WIDE SOUND SPEECH EMPHASIS	
RESET	25

PICTURE	AUDIO	SETUP	OPTION			
		CH-S		ING		
		мтз				
		CLOC	к			
		AV2	IN/	оит		
		V – C H	IP	BLOO	к	
		CLOS				
		COLC				
		LANG				

CH-SETTING	26, 27
MTS	18, 27
CLOCK	15, 16
AV2 IN/OUT	27
V-CHIP BLOCK	28-33
CLOSED CAPTION	34
COLOR SYSTEM	13, 27
LANGUAGE	14, 27

Page

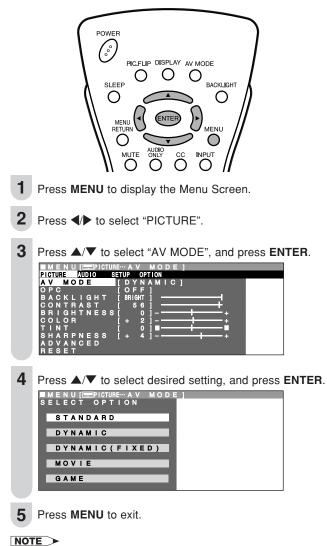
OPTION		TION ]	
	PICTURE AUDIO	SETUP	OPTION
			VIEW MODE
			AUDIO ONLY
			SLEEP TIMER
			WAKE-UP TIMER
			NO SIGNAL OFF
			NO OPERATION OFF
			PICTURE FLIP

	Page
VIEW MODE	35
AUDIO ONLY	35
SLEEP TIMER	
WAKE-UP TIMER	37
NO SIGNAL OFF	37
NO OPERATION OFF	37
PICTURE FLIP	38

# **Basic Adjustment Settings**

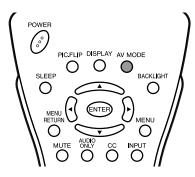
# AV MODE

AV MODE gives you preset options to choose from, to best match the image based on room-brightness and playback software used.



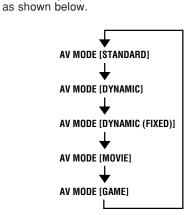
- You can select a different AV MODE item for each input mode. (For example, select "STANDARD" for TV input and "DYNAMIC" for VIDEO input.)
- When "AV MODE" is set to "DYNAMIC (FIXED)", "NO PICTURE ADJUSTMENTS AVAILABLE IN [DYNAMIC (FIXED)]." is displayed and the items in the PICTURE screen (except "OPC" and "ADVANCED") cannot be set.

#### Directly setting the AV MODE



Press AV MODE.

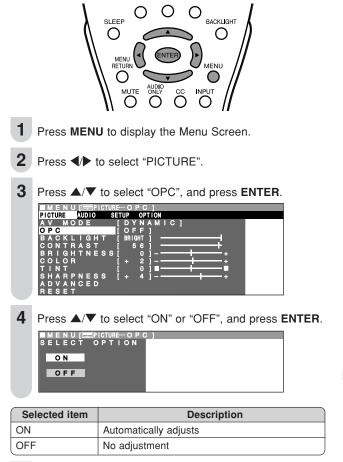
Before the AV MODE display disappears, press
AV MODE again and select your desired setting.
Each time you press AV MODE, the mode changes



Selected item	Description
STANDARD	Changing image settings to standard values.
DYNAMIC	For a clear-cut image emphasizing high contrast for sports viewing.
DYNAMIC (FIXED)	Changing image settings to factory preset values. No adjustments are allowed.
MOVIE	Controlling the contrast to enable easier viewing of dark images.
GAME	Controlling the brightness of video games and other images for easier viewing.

# OPC

Automatically adjusts the brightness of the screen.



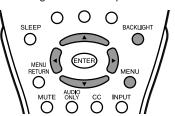
5 Press MENU to exit.

#### NOTE

• When setting to "ON", the OPC indicator lights up green, senses the surrounding light and automatically adjusts the backlight brightness. Make sure no object obstructs the OPC sensor, which could affect its ability to sense surrounding light.

### BACKLIGHT

You can adjust the brightness of the picture.



- **1** Press **MENU** to display the Menu Screen.
- 2 Press ◀/► to select "PICTURE".
- 3 Press ▲/▼ to select "BACKLIGHT".

MENU [PICTUR	E… BACKLIGHT ]
PICTURE AUDIO SI	ETUP OPTION
AV MODE	[DYNAMIC]
OPC	[OFF]
BACKLIGHT	[ BRIGHT ]
CONTRAST	[ 56] ————
BRIGHTNESS	[ 0]+
COLOR	[+ 2]++
TINT	[ 0]∎——————∎
SHARPNESS	[ + 4 ]+
ADVANCED	
RESET	

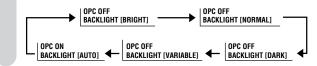
- 4 Press **√** to adjust the item to your desired position.
- 5 Press MENU to exit.

#### NOTE

• "BACKLIGHT" cannot be adjusted while "OPC" is set to "ON".

#### Directly setting the BACKLIGHT

- **1** Press **BACKLIGHT** to display the BACKLIGHT screen.
- 2 Press **BACKLIGHT** to change the setting.

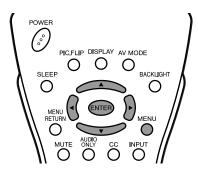


#### NOTE

- The BACKLIGHT screen automatically disappears in 3 seconds.
- [BRIGHT]: maximum brightness
- [NORMAL]: 60% brightness (Suitable for viewing in a well-lit area. Saves energy.)
- [DARK]: 10% brightness (Sufficiently bright when viewing in dim areas.)
- [VARIABLE]: The brightness can be adjusted to suit your preference using ◀/►.
- [AUTO]: Screen brightness adjusts according to the ambient light of the room to conserve power consumption. The OPC indicator lights up green.
- When set to "AUTO", make sure no object obstructs the OPC sensor, which could affect its ability to sense surrounding light.

### **PICTURE Adjustments**

You can adjust the picture to your preference with the following picture settings.



- **1** Press **MENU** to display the Menu screen.
- 2 Press **√** to select "PICTURE".

3	Press $\blacktriangle/V$ to select a specific adjustment ite	m
	MENU[E=PICTURE···CONTRAST]	
	AV MODE [DYNAMIC]	
	OPC [OFF] BACKLIGHT [BRIGHT]	
	BRIGHTNESS [ 0]++	
	SHARPNESS [ + 4 ]++++	
	ADVANCED	
	RESET	

4 Press **√** to adjust the item to your desired position.

#### 5 Press MENU to exit.

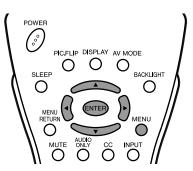
Selected item	button	▶ button
BACKLIGHT	The screen dims	The screen brightens
CONTRAST	For less contrast	For more contrast
BRIGHTNESS	For less brightness	For more brightness
COLOR	For less color intensity	For more color intensity
TINT	Skin tones become purplish	Skin tones become greenish
SHARPNESS	For less sharpness	For more sharpness

#### NOTE

- Select "ADVANCED", and press ENTER to set "COLOR TEMP.", "I/P SETTING", "NOISE CLEAN" or "FILM MODE". See pages 23 and 24.
- When resetting all adjustment items (except for the items on the AV MODE, OPC and ADVANCED menus, and the items other than "VARIABLE" in the BACKLIGHT setting) to factory preset values, perform the following procedures.
- Press ▲/▼ to select "RESET" in the PICTURE screen, and press ENTER.
- ② Press ▲/▼ to select "YES", and press ENTER.

## **COLOR TEMPERATURE**

You can adjust the color temperature to give a better white balance.



- **1** Press **MENU** to display the Menu screen.
- 2 Press **√** to select "PICTURE".
- 3 Press ▲/▼ to select "ADVANCED", and press ENTER.

MENU	··· A D V A N C E D ]
PICTURE AUDIO SET	TUP OPTION
AV MODE [	DYNAMIC]
OPC [	OFF]
BACKLIGHT [	BRIGHT J
CONTRAST I	561
BRIGHTNESSI	o i – — — +
COLOR I	+ 21+
TINT I	
SHARPNESS İ	+ 4 1+
ADVANCED	
RESET	

4 Press ▲/▼ to select "COLOR TEMP.", and press ENTER.

MENU [EPICTURE A	DVANCED ]
	SELECT OPTION
COLOR TEMP.	
RED [ 0]	USER
GREEN Í OÌ	
BLUE Î DÎ	HIGH
I/P SETTING	
NOISE CLEAN	MIDDLE
FILM MODE	
RESET	LOW

- **5** Press  $\blacktriangle$  v to select the desired item, and press **ENTER**.
- 6 Press MENU to exit.

Selected item	Description
USER	Can set your desired color*
HIGH MIDDLE	White with Bluish tone
LOW	White with Reddish tone

\*When you select "USER", the following items are adjustable.

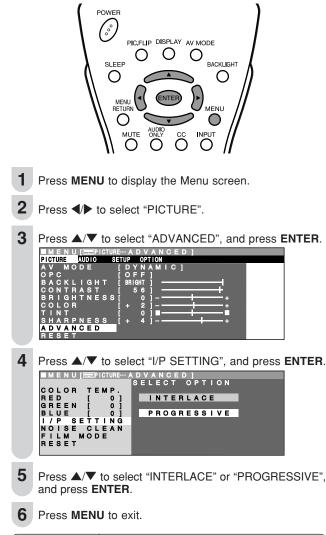
Selected item	Press <		Press 🕨
RED	Weaker red	<u>_</u> ←   <sub>→+</sub>	Stronger red
GREEN	Weaker green	<u>_</u> ←   → +	Stronger green
BLUE	Weaker blue	<u>_</u> ←   →_+	Stronger blue

#### NOTE

- When resetting the items in the "USER" setting to factory preset values, perform the following procedures.
- Press ▲/▼ to select "RESET" in the ADVANCED screen, and press ENTER.
- ② Press ▲/▼ to select "YES", and press ENTER.

### **I/P SETTING**

Adjusting the image and input signal can give you a more beautiful picture.



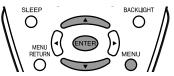
Selected item	Description	
INTERLACE	Use this setting when you cannot get a clear picture with PROGRESSIVE. (Especially suitable for media with special effects like game software.)	
PROGRESSIVE	Normally, you should select this setting.	

#### NOTE

• "I/P SETTING" cannot be set when 480P, 576P, 720P or 1080I signal or no signal is received from the COMPONENT terminals.

#### **NOISE CLEAN**

Produces a clearer video image.



**1** Repeat Steps **1** to **3** of **I/P SETTING**.

2 Press ▲/▼ to select "NOISE CLEAN", and press ENTER.

MENU [EPICTURE ··· A DVANCED]	
COLOR TEMP. RED [ 0] GREEN [ 0] BLUE [ 0] I/P SETTING NOISE CLEAN FILM MODE RESET	N

- 3 Press ▲/▼ to select "ON", and press ENTER.
- 4 Press MENU to exit.

#### NOTE

- "NOISE CLEAN" cannot be set when 1080I or 720P signal or no signal is received from the COMPONENT terminals.
- "NOISE CLEAN" cannot be adjusted when "I/P SETTING" is set to "INTERLACE".

### FILM MODE

Automatically detects a film-based source (originally encoded at 24 frames/second), analyses it, and then recreates each still film frame for cinematic picture quality.



- Repeat Steps 1 to 3 of I/P SETTING.
- 2 Press ▲/▼ to select "FILM MODE", and press ENTER.

MENU [ PICTURE… /	SELECT OPTION
COLOR TEMP.	
RED [ 0]	ON
GREEN [ 0]	
BLUE [ 0]	OFF
I/P SETTING	
NOISE CLEAN	
FILM MODE	
RESET	

- 3 Press ▲/▼ to select "ON", and press ENTER.
- 4 Press MENU to exit.

NOTE

- Set "FILM MODE" to "ON" manually to detect a film-based source (originally encoded at 24 frames/second) when the input source has vertical frequency of 50 Hz (e.g. PAL, SECAM, etc.).
   "FILM MODE" cannot be set when 480P, 576P, 720P or 1080I signal
- "FILM MODE" cannot be set when 480P, 576P, 720P or 1080I signal or no signal is received from the COMPONENT terminals.

# **AUDIO Adjustments**

You can adjust the sound quality to your preference with the following settings.

# BACKLIGHT SI FEP 1 Press MENU to display the Menu screen. 2 Press </ > </ > </ > </ > </ > </ > </t> 3 Press $\blacktriangle/\nabla$ to select a specific adjustment item. SETUP OPTION PICTURE AUDIO UND EMPHASIS s o 4 Press to adjust the item to your desired position.

5 Press MENU to exit.

Selected item	Press <	Press 🕨
TREBLE	For weaker treble _+ +	For stronger treble
BASS	For weaker bass 🛶 🛶	For stronger bass
BALANCE	Decrease audio from the right speaker	Decrease audio from the left speaker

#### NOTE >

- The items on the AUDIO menu cannot be set when headphones are not used and "AV2 IN/OUT" is set to [OUT 🕸 VAO].
- · When resetting all adjustment items (except for "WIDE SOUND", "SPEECH EMPHASIS") to factory preset values, perform the following procedures.
- Press ▲/▼ to select "RESET", and press ENTER.
   Press ▲/▼ to select "YES", and press ENTER.

# WIDE SOUND

This feature can increase the spread of the sound.

- 1 Repeat steps 1 and 2 of AUDIO Adjustments.
- 2 Press ▲/▼ to select "WIDE SOUND" and press ENTER.

<b>MEN</b>	EDDAUDIOWIDE SOUND]	
PICTURE	UDIO SETUP OPTION	
	TREBLE [ 0]+	
	BASS [ 0]+	
	BALANCE[ 0]LR	
	NIDE SOUND	
	SPEECH EMPHASIS	
	RESET	

**3** Press  $\blacktriangle/\blacksquare$  to select "ON" and press ENTER.

■ M E S E L	NU ECT OPTI	WIDE SOU ON	ND]
0			
0	FF		

Press MENU to exit.

#### NOTE >

• "WIDE SOUND" menu cannot be set when "AV2 IN/OUT" is set to [OUT 🕸 VAO].

# SPEECH EMPHASIS

Micronas® VOICE, Speech Enhancement and Intelligibility Processing technology by Micronas GmbH, has the following features:

- · Increases the speech signal over background noise to increase intelligibility.
- Separates voice from the background and moves it to the foreground: Voices are moved to closer to listener, while other sounds are moved to the back.
- · Improves voices that are hard to understand, but leaves clear voices undisturbed.
- 1 Repeat steps 1 and 2 of AUDIO Adjustments.
- 2 Press ▲/▼ to select "SPEECH EMPHASIS" and press ENTER.

■ M E N U	J[TODAUDIOSPEECH EMPHASIS]
PICTURE	AUDIO SETUP OPTION
	TREBLE [ 0]+
	BASS [ 0]+
	BALANCE[ 0]LR
	WIDE SOUND
	SPEECH EMPHASIS
	RESET

3 Press  $\blacktriangle/\nabla$  to select "ON" and press ENTER.

■MENU[CDDAUDIOSPEE SELECT OPTION	CH EMPH/	\\$   \$ ]
ON		
OFF		

4 Press MENU to exit.

#### NOTE >

• "SPEECH EMPHASIS" menu cannot be set when "AV2 IN/OUT" is set to [OUT 🕸 VAO].

## **CH-SETTING**

#### EZ SETUP

When you move to an area with different broadcasting signals, you may have to set the channel numbers and the time with the EZ SETUP function. To activate EZ SETUP, perform the following procedures.

- Press ▲/▼ to select "CH-SETTING" in the SETUP screen and press ENTER.
- ② Press ▲/▼ to select "EZ SETUP", and press ENTER.
- ③ Press ▲/▼ to select "YES", and press ENTER.

Refer to page 14 for more information on EZ SETUP.

#### Setting the AIR/CABLE

It is necessary to set the receiving mode to AIR or CABLE channels to receive locally broadcast TV programs.

## POWER PIC,FLIP DISPLAY AV MODE SLEEP MENU RETURN MUTE ONLY CC INPUT

- **1** Press **MENU** to display the Menu screen.
- 2 Press **√** to select "SETUP".
- 3 Press ▲/▼ to select "CH-SETTING", and press ENTER.



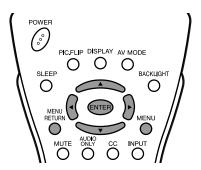
4 Press ▲/▼ to select "AIR/CABLE", and press ENTER. Press ▲/▼ to select desired setting, and press ENTER.



5 Press MENU to exit.

#### NOTE

 Receivable channels of your LCD TV set are: AIR channels: CABLE channels: VHF: 2 through 13. 1 (HRC and IRC) UHF: 14 through 69. 2 through 125 (STD, HRC and IRC) Saving broadcast TV channels in the memory



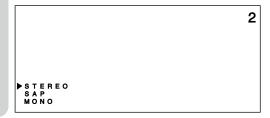
- **1** Press **MENU** to display the Menu screen.
- 2 Press **√** to select "SETUP".
- **3** Press  $\blacktriangle/ \blacksquare$  to select "CH-SETTING", and press **ENTER.**

THAT NUMBER	UP····CH – SETTING 1	
PICTURE AUDIO	SETUP OPTION	
	CH-SETTING	
	мтѕ	
	CLOCK	
	AV2 IN/OUT	
	V-CHIP BLOCK	
	CLOSED CAPTION	
	COLOR SYSTEM	
	LANGUAGE	

4 Press  $\blacktriangle/ \nabla$  to select "CH SEARCH", and press **ENTER**.

■MENU[SETUP····CH-SETTING] CH SEARCH																									
	0	н	-	S	E	A	H	CH							-		_	_			_		_	_	
									E	х	Ξ	С	U	ΠE		СН		SE	E A	R	С	H			
E	z		s	Е	т	υ	Р																		
A	Т	R	1	С	А	в	L	E		С	Α	в	L	E											
lc	н		s	Е	Α	R	С	н																	
Ċ	H.		Ň	E	м	0	B	Ŷ																	
<u>-</u> ا						Ξ.																			

5 Press ENTER. The tuner will search through all available channels in your area and add them to the TV memory.



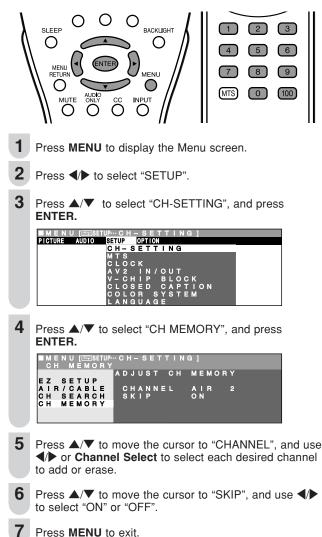
#### 

 To interrupt CH SEARCH, press MENU RETURN. CH SEARCH will stop at the current channel and will not add any higher channels.

# **CH-SETTING (Continued)**

Adding weak or additional channels or erasing unwanted channels from TV memory

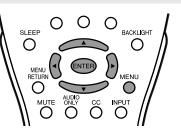
Individual settings of programs can be adjusted.



#### NOTE

• If CH SEARCH is performed again, the previously memorized channels will be lost.

### SETUP



- **1** Press **MENU** to display the Menu screen.
- 2 Press **◄**/**▶** to select "SETUP".
- **3** Press  $\blacktriangle/\blacksquare$  to select desired item, and press ENTER.

■ M E N U	[ESETUP]				
PICTURE /	UDIO SEI	UP OPTI	N		
	CI	H-SET	TING		
	М.	ГS			
	CI	LOCK			
	A 1	/2 IN	/OUT		
	v -	- CHIP	BLOCI	κ	
	CI	LOSED	CAPT	ION	
	C	DLOR	SYSTEI	M	
	L	ANGUA	GE		

- **4** Press  $\blacktriangle/ \blacksquare$  to change the setting, and press ENTER.
- 5 Press MENU to exit.

Selected Item	Factory setting	Setting options				
MTS	[STEREO] Stereo audio	[SAP] Secondary audio program [MONO] Monophonic audio				
AV2 IN/OUT*	[IN] AV-IN2/OUT terminals selected as input terminals	[OUT □ FAO] Line Output is selected, Output volume is fixed, Speaker output is available. [OUT □ ★ VAO] Line Output is selected, Output volume is variable, Speaker output is mute.				
COLOR SYSTEM	TV mode: N358/PAL	-M/PAL-N				
		3/PAL/PAL-M/PAL-N/ AL60/AUTO				
	When the COMPONENT mode is select NO display					
LANGUAGE	[ENGLISH]	[ESPAÑOL] [FRANÇAIS]				

\* "AV2 IN/OUT" cannot be set when "AV2" is selected in "WAKE-UP TIMER" in the OPTION screen.

#### NOTE

For details about the following items, refer to the each indicated page.

CH-SETTING	Pages 26 and 27
• CLOCK	Pages 15 and 16
V-CHIP BLOCK	Pages 28 to 33
AL AAFR AARTIAN	

CLOSED CAPTION ..... Page 34

• TV mode:

This LCD TV is factory set to comply with the color system in the United States (NTSC-N358).

For Brazil (PAL-M), Argentina (PAL-N) or Uruguay (PAL-N), adjust the color system before using this LCD TV.

## **V-CHIP Settings**

#### V-CHIP

- This function allows TV programs to be restricted and TV usage to be controlled based on FCC data. It prevents children from watching violent or sexual scenes that may be harmful.
- · Restriction of TV programs includes two ratings that contain information about the program: the MPAA (Motion Picture Association of America) rating and the TV Parental Guidelines. The MPAA rating is restricted by age. TV Parental Guidelines are restricted by age and content.

Х.

· Since a TV program may use either the MPAA rating or the TV Guidelines, both should be adjusted for complete control.

#### **MPAA** rating

RATI	NG	
	G	GENERAL AUDIENCES. All ages admitted.
	PG	PARENTAL GUIDANCE SUGGESTED. Some material may not be suitable for children.
age	PG-13	PARENTS STRONGLY CAUTIONED. Some material may be inappropriate for children under 13.
based	R	RESTRICTED. Under 17 requires accompanying parent or adult guardian.
	NC-17	NO ONE 17 AND UNDER ADMITTED.
	Х	X is an older rating that is unified with NC-17 but may be encoded in the data of older movies.

MPAA rating

#### Example 1:

is	1. Use	r setting	j 2	. 1	Block table			
15	G		t t		G	not to block		
	PG				PG	not to block		
	PG-13	BLOCK	age		PG-13	Select block		
	R	BLOCK	base	d	R	auto- block		
	NC-17	BLOCK			NC-17	auto- block		
	x	BLOCK		ĺ	х	auto- block		

Example 2: R in the age-based rating is blocked, this will also automatically block the higher ratings NC-17 and

PG PG-13 R BLOCK BLOCK NC-17 x BLOCK

1. User setting

G

2. Block table								
1	G	not to block						
	PG	not to block						
age	PG-13	not to block						
based	R	Select block						
	NC-17	auto- block						
ļ	х	auto- block						

NOTE >

The MPAA rating is only age-based.

PG-13 in the age-based rating

automatically block the higher

blocked, this will also

ratings R, NC-17 and X.

#### TV parental guidelines

		$\Leftarrow \text{ content based } \Rightarrow$											
	Rating	FV (Fantasy Violence)	V (Violence)	S (Sexual Situation)	L (Adult Language)	D (Sexually Suggestive Dialog)							
	TV-Y (All children)	X	X	X	X	$\boxtimes$							
↑	TV-Y7 (Direct to Older Children)	×	X	X	X	$\boxtimes$							
age	TV-G (General Audience)		X	X	X	$\boxtimes$							
based	TV-PG (Parental Guidance Suggested)		Х	×	×	×							
↓↓	TV-14 (Parents Strongly Cautioned)		×	×	×	×							
	TV-MA (Mature Audience Only)		×	×	×								

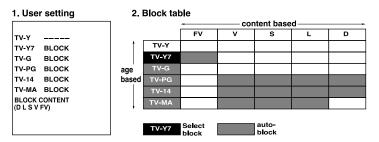
It is not normally broadcast by TV stations.

X: The content rating can be set.

#### TV parental guidelines

#### Example:

When TV-Y7 in the age-based rating is set to BLOCK, this will automatically block the higher ratings: TV-G, TV-PG, TV-14 and TV-MA. In addition, D, L, S, V and FV in BLOCK CONTENT are automatically blocked unless you manually set BLOCK CONTENT.

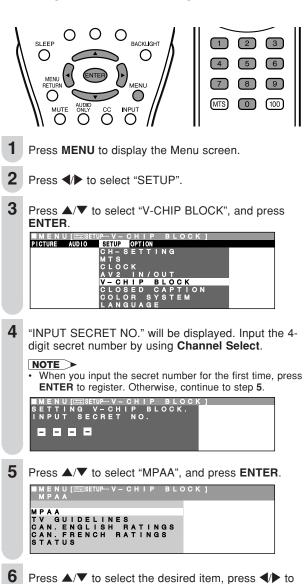


#### NOTE >

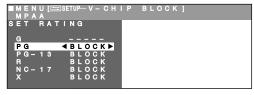
- · Age-based ratings can be modified by the content-based ratings, but only in the combinations indicated by an X in the table above.
- Choosing a lower age-based rating blocks the higher age-based ratings regardless of content rating settings.
- · If you set TV-Y and TV-Y7 to BLOCK, BLOCK CONTENT will display all items.

# V-CHIP Settings (Continued)

Setting V-CHIP (MPAA rating)



**5** Press  $\blacktriangle/ \blacksquare$  to select the desired item, press  $\blacktriangleleft/ \blacksquare$  to select "BLOCK".



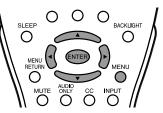
If you set "PG" to "BLOCK", then "PG-13", "R", "NC-17" and "X" are automatically blocked.



#### NOTE

- If you set "G" to "BLOCK", all ratings are automatically blocked.
- If you set "X" to "BLOCK", then "G", "PG", "PG-13", "R" and "NC-17" are not blocked.

Setting V-CHIP (TV GUIDELINES)
 Setting TV GUIDELINES



- 1 Repeat steps 1 to 4 of Setting V-CHIP (MPAA rating).
- **2** Press  $\blacktriangle/ \nabla$  to select "TV GUIDELINES", and press **ENTER**.

MENU[ESETUP...V-CHIP BLOCK] TV GUIDELINES MPAA TV GUIDELINES CAN.ENGLISH RATINGS CAN.FRENCH RATINGS STATUS

3 Press ▲/▼ to select the desired item, press ◀/▶ to select "BLOCK".

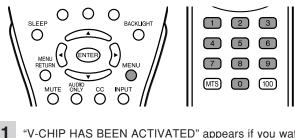
■MENU[I SETUP…V-CHI TV GUIDELINES	P BLOCK]
SET RATING	
<u>TV-Y</u>	
TV-Y7 ◀BLOCK►	
TV-G BLOCK	
TV-PG BLOCK	
TV-14 BLOCK	
TV-MA BLOCK	
BLOCK CONTENT	
[DLSVFV]	

If you set "TV-Y7" to "BLOCK", then "TV-G", "TV-PG", "TV-14" and "TV-MA" are automatically blocked. In addition, "D", "L", "S", "V" and "FV" in "BLOCK CON-TENT" are automatically blocked.



 Setting BLOCK CONTENT Activating V-CHIP BLOCK Setting STATUS Ο You can activate V-CHIP BLOCK after setting BACKLIGHT SLEEP MPAA rating or TV GUIDELINES. Ο Ο Ο Ο O SLEEP MENU BACKLIGHT MENU Ο Ο Ο  $\bigcirc$ INPUT Ô О RETURN MENU Ο  $\bigcirc$ Repeat steps 1 to 4 of Setting V-CHIP (MPAA rating). O 1 INPUT  $\cap$ (See page 29.) 2 Press ▲/▼ to select "TV GUIDELINES", and press Repeat steps 1 to 4 of Setting V-CHIP (MPAA rating). 1 ENTER. (See page 29.) MENU[ESETUP····V-CHIP BLOCK] TV GUIDELINES 2 Press  $\blacktriangle/\nabla$  to select "STATUS", and press **ENTER**. MPAA TV GUIDELINES CAN.ENGLISH RATINGS CAN.FRENCH RATINGS STATUS MENU[ﷺSETUP---V-CHIP BLOCK] MPAA TV GUIDELINES CAN.ENGLISH RATINGS CAN.FRENCH RATINGS STATUS 3 Press ▲/▼ to select "BLOCK CONTENT", and press ENTER. 3 U[===SETUP····V – CHIP BLOCK] GUIDELINES····BLOCK CONTENT RATING Press ▲/▼ to set "STATUS" to "ON", and press ENTER. BLOCK BLOCK BLOCK BLOCK BLOCK ■MENU[EESSETUP····V-CHIP BLOCK] <u>STATU</u>S STATUS SELECT OPTION V – G V – PG V – 14 V – MA ON OFF BLOCK CONTENT [D L S V FV] 4 Press  $\blacktriangle/\nabla$  to select the desired item, and press  $\checkmark/\triangleright$ to select "BLOCK" or "----" (unblock). NOTE > • If "STATUS" is set to "OFF", V-CHIP BLOCK will not be NU[E≣SETUP···V-CHIP BLOCK] GUIDELINES···BLOCK CONTENT RATING\_\_\_\_\_ activated. SET 4 Press MENU to exit. D **∢**BLOCKÞ B L O C K B L O C K B L O C K B L O C K S V F V 5 Press MENU to exit.

Canceling the V-CHIP BLOCK screen while V-CHIP BLOCK is activated



"V-CHIP HAS BEEN ACTIVATED" appears if you watch a program with the same Program Rating data you configured.

V-CHIP HAS BEEN ACTIVATED TV-14 DLSV

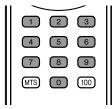
#### NOTE >

1

- "V-CHIP HAS BEEN ACTIVATED" will not be displayed if "STATUS" is set to "OFF".
- 2 Press MENU to display "INPUT SECRET NO.".



- 3 Input the 4-digit secret number by using **Channel Select**; V-CHIP BLOCK is temporarily canceled. If you input an incorrect secret number, "SECRET NO. IS INCORRECT" is displayed. In this case, input the correct secret number.
- Changing V-CHIP BLOCK settings



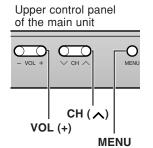
Repeat steps 1 to 3 of Setting V-CHIP (MPAA rating), then "INPUT SECRET NO." will be displayed. (See page 29.)

MENU[E]SETUP--V-CHIP BLOCK] SETTING V-CHIP BLOCK. NPUT SECRET NO.

2 Input the 4-digit secret number by using **Channel Select**; the V-CHIP select mode will be displayed. Set the V-CHIP BLOCK again.



- Changing or clearing the SECRET NUMBER If you forget the secret number clear the secret number
  - If you forget the secret number, clear the secret number as follows.



- 1 Repeat steps 1 to 3 of Setting V-CHIP (MPAA rating) (see page 29), or 1 and 2 of Canceling the V-CHIP BLOCK screen while V-CHIP BLOCK is activated, then "INPUT SECRET NO." will be displayed.
- **2** Press and hold both **CH** (**^**) and **VOL** (+) on the main unit simultaneously until the message "INPUT SECRET NO." blinks.
- **3** Press **MENU** to exit.

### **Canadian Rating Systems**

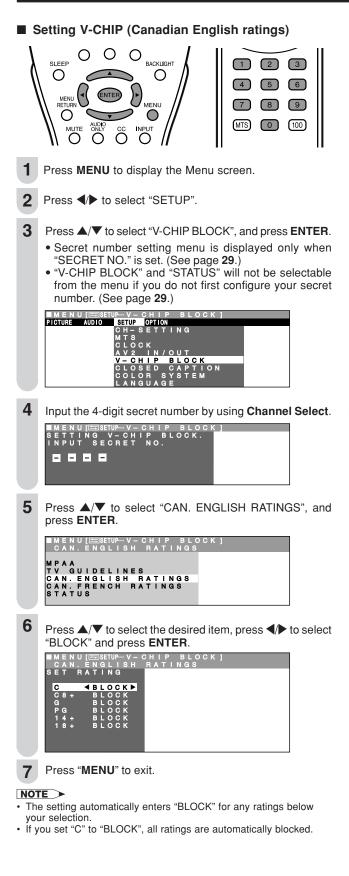
- The TV rating systems in Canada are based on the Canadian Radio-Television and Telecommunications Commission (CRTC) policy on violence in television programming.
- While violence is the most important content element to be rated, the structure developed takes into consideration other program content like language, nudity, sexuality and mature themes.
- When setting the V-CHIP on the Canadian system you can choose either the Canadian English ratings or the Canadian French ratings.

### **Canadian English ratings**

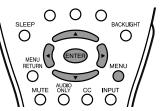
Rat	ing	Description						
	С	Children: Intended for younger children under the age of 8 years. Pays careful attention to themes that could threaten their sense of security and well-being.						
	C8+ Children over 8 years old: Contains no portrayal of violence as the preferred or only way to resolve conflict; nor encourage children to imitate dangerous a they may see on the screen.							
	G	General: Considered acceptable for all age groups. Appropriate viewing for the entire family, contains very little violence, physical, verbal or emotional.						
Age	PG	Parental Guidance: Intended for a general audience, but may not be suitable for younger children (under the age of 8) because it could contain controversial themes or issues.						
	14+	Over 14 Years: Could contain themes where violence is one of the dominant elements of the storyline, but it must be integral to the development of plot or character. Language usage could be profane and nudity present within the context of the theme.						
	18+	Adults: Intended for viewers 18 years and older and might contain depictions of violence which while related to the development of plot, character or themes, are intended for a viewing. Could contain graphic language and portrayals of sex and nudity.						

#### **Canadian French ratings**

Rat	ing	Description
	G	General: All ages and children, contains minimal direct violence, but may be integrated into the plot in a humorous or unrealistic manner.
	8ans+	General but inadvisable for young children: May be viewed by a wide public audience, but could contain scenes disturbing to children under 8 who cannot distinguish between imaginary and real situations. Recommended for viewing with parent.
Age	13ans+	Over 13 years: Could contain scenes of frequent violent scenes and therefore recommended for viewing with parent.
	16ans+	Over 16 years: Could contain frequent violent scenes and intense violence.
	18ans+	Over 18 years: Only for adult viewing. Could contain frequent violent scenes and extreme violence.



Setting V-CHIP (Canadian French ratings)



- 1 Repeat steps 1 to 4 of Setting V-CHIP (Canadian English ratings).
- **2** Press  $\blacktriangle/\nabla$  to select "CAN. FRENCH RATINGS", and press ENTER.
- 3 Press ▲/▼ to select the desired item, press ◀/▶ to select "BLOCK" and press ENTER.

	NU[田SETUP…V-CHIP BLOCK]
	N. FRENCH RATIN <u>gs</u>
SET	RATING
G	<b>∢</b> BLOCK►
8	ans+ BLOCK
13	ans+ BLOCK
16	ans+ BLOCK
18	ans+ BLOCK

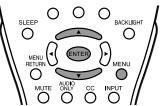
4 Press "MENU" to exit.

#### NOTE

- The setting automatically enters "BLOCK" for any ratings below your selection.
- If you set "G" to "BLOCK", all ratings are automatically blocked.

# Activating V-CHIP BLOCK Setting STATUS

You can activate "V-CHIP BLOCK" after setting Canadian English ratings or Canadian French ratings.



- 1 Repeat steps 1 to 4 of Setting V-CHIP (Canadian English ratings).
- 2 Press ▲/▼ to select "STATUS", and press ENTER.



3 Press ▲/▼ to set "STATUS" to "ON", and press ENTER.

■MENU[EESETUP····V – CHIP BLOCK] STATUS
SELECT OPTION
O N
OFF

#### NOTE >

Press MENU to exit.

If "STATUS" is set to "OFF", "V-CHIP BLOCK" will not be activated.

# **CLOSED CAPTION**

#### Setting CLOSED CAPTION

- This LCD TV set is equipped with an internal Closed Caption decoder. "Closed Caption" is a system which allows conversations, narration, and sound effects in TV programs and home videos to be viewed as captions on the TV screen (see the illustration).
- Not all programs and videos will offer closed captioning. Please look for the "CC" symbol to ensure that captions will be shown.
- The Closed Caption broadcasts can be viewed in two modes: CAPTION and TEXT. For each mode, two channels are available: CH1 and CH2.

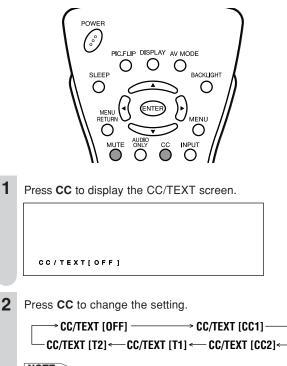
The CAPTION mode shows subscripts of dialogs and commentaries of TV dramas and news

programs while allowing a clear view

of the picture. The TEXT mode displays various information over the picture (such as TV program schedules and weather forecasts, etc.) that is independent of the TV programs.



#### **Directly setting the CLOSED CAPTION**



#### NOTE >

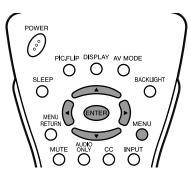
- CC1: CLOSED CAPTION mode for CH1 data
- CC2: CLOSED CAPTION mode for CH2 data
- T1: TEXT mode for CH1 data
- T2: TEXT mode for CH2 data

#### NOTE

1

- If a broadcast contains Closed Caption data and MUTE is pressed, the LCD TV set enters CLOSED CAPTION mode automatically. Pressing MUTE again will return the LCD TV set to its previous condition.
- Closed Caption may malfunction (white blocks, strange characters, etc.) if signal conditions are poor or if there are problems at the broadcast source. This does not necessarily indicate a problem with your LCD TV set.
- If any button is pressed to call up the On-Screen Display while viewing a Closed Caption broadcast, the closed captions will disappear momentarily.
- If no TEXT broadcast is being received while viewing in the TEXT mode, the screen may become blank for some programs. Should this occur, switch the CLOSED CAPTION mode to OFF.

Setting the CLOSED CAPTION on the Menu screen



- 1 Press MENU to display the Menu screen.
- 2 Press **√** to select "SETUP".
- 3 Press ▲/▼ to select "CLOSED CAPTION ", and press ENTER.

■MENU [☲=SETUP… CLOSED CAPTION	]
PICTURE AUDIO SETUP OPTION	
CH-SETTING	
MTS	
CLOCK	
AV2 IN/OUT	
V-CHIP BLOCK	
CLOSED CAPTION	
COLOR SYSTEM	
LANGUAGE	

Press ▲/▼ to change the CLOSED CAPTION setting, and press ENTER.

■MENU [団SETUP…CLOSED SELECT OPTION	CAPTION ]
OFF	
C C 1	
C C 2	
T 1	
T 2	

#### NOTE

CC1: CLOSED CAPTION mode for CH1 data CC2: CLOSED CAPTION mode for CH2 data T1: TEXT mode for CH1 data

T2: TEXT mode for CH2 data

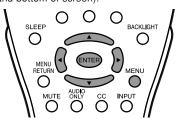


## **VIEW MODE**

You can select the picture display size for the playback image of the DVD player from the following four modes: "4:3", "16:9", "ZOOM" and "STRETCH".

#### NOTE>

 VIEW MODE settings are not available when HDTV signals are input. All HDTV programs will be displayed in letter box format (bars at top and bottom of screen).



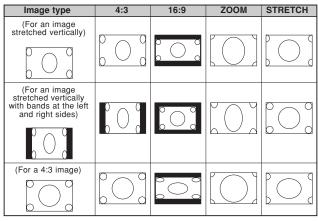
- **1** Press **MENU** to display the Menu screen.
- 2 Press **√** to select "OPTION".
- **3** Press ▲/▼ to select "VIEW MODE", and press ENTER.

AUDIO	2		vn														
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**4** Press  $\blacktriangle/ \nabla$  to select desired setting, and press ENTER.

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		s	т	R	ЕΤ	CI	н									

Selected item	Description
4:3	Displays the image in a 4:3 size.
16:9	Stretches the image horizontally to display it in a 16:9 size.
ZOOM	Displays the center part of the image by enlarging it towards the horizontal and vertical directions.
STRETCH	Stretches the image horizontally.

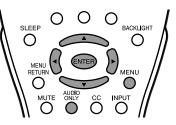


#### NOTE

- The 4:3 image will be distorted on the screen when the "VIEW MODE" is set to "16:9".
- 5 Pre
  - Press MENU to exit.

# **AUDIO ONLY**

When listening to music from a music program, you can set the Liquid Crystal display off and enjoy audio only.



#### Setting the AUDIO ONLY on the Menu screen

- **1** Press **MENU** to display the Menu screen.
- 2 Press **√** to select "OPTION".
- **3** Press  $\blacktriangle/ \nabla$  to select "AUDIO ONLY", and press ENTER.
- 4 Press ▲/▼ to select "ON", and press ENTER. ■ MENU[INDIAN-AUDIO ONLY] SELECT OPTION ON OFF

Selected item	Description
ON	Audio is output without screen image.
OFF	Both screen images and audio are output.

#### Directly setting the AUDIO ONLY

**1** Press **AUDIO ONLY**. 'PRESS "AUDIO ONLY" FOR VIDEO OFF' is displayed on the screen.

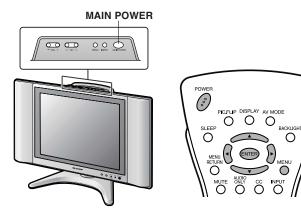
AUDIO ONLY [OFF] PRESS'AUDIO ONLY'FOR VIDEO OFF

- **2** Press **AUDIO ONLY** again. The screen image will disappear.
- **3** Press **AUDIO ONLY** again. The screen image will be displayed again.

#### **SLEEP TIMER**

You can set the SLEEP TIMER to automatically turn off the TV.

Ο



#### Setting the SLEEP TIMER on the Menu screen

- 1 Press MENU to display the Menu screen.
- 2 Press **√** to select "OPTION".
- 3 Press ▲/▼ to select "SLEEP TIMER", and press ENTER.



4 Press ▲/▼/◀/▶ to select "30MIN", "60MIN", "90MIN", "120MIN", "150MIN" or "OFF", and press ENTER.

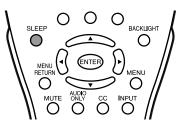
■MENU [⊡ZOPTION····SLEEP ]	'IM <u>ER]MIN</u>
SELECT OPTION	
30MIN OFF	
30MIN OFF	
6 0 M I N	
9 0 M I N	
120MIN	
150MIN	

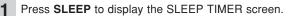
5 Press MENU to exit.

#### NOTE >

- After you set the SLEEP TIMER, pressing MAIN POWER on the main unit or POWER on the remote control will cancel the SLEEP TIMER setting.
- 5 minutes before the SLEEP TIMER turns off the LCD TV, "5 MIN REMAINING" is displayed on the screen for 4 seconds. The SLEEP TIMER counts down and shows a similar 4-second display for each remaining minute until the timer turns off the LCD TV set.

Directly setting the SLEEP TIMER







2 Press **SLEEP** to set the sleep timer (in minutes).



NOTE The SLEEP TIMER screen automatically disappears in 3 seconds.

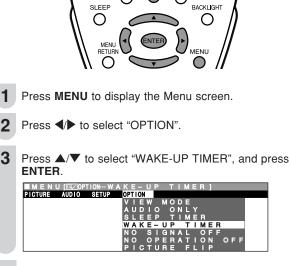
#### **WAKE-UP TIMER**

You can set the WAKE UP TIMER to automatically turn on the TV.

PIC.FLIP DISPLAY AV MODE

 $\odot$ 

О



4 Press  $\blacktriangle/\nabla$  to select the items, and press  $\checkmark/\triangleright$  to adjust them.

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۷	0	L	U	ME		2	0										

Selected item	Description						
TIMER	To activate the WAKE-UP TIMER, set this item to "ON".						
TIME	Set the time at which you want to turn on the TV.						
CHANNEL	Set the TV channel or input mode when the TV is turned on.						
VOLUME	Set the volume when the TV is turned on.						

- 5 Press MENU to exit.
- 6 Make sure to turn off the LCD TV with the remote control.
  - · The WAKE-UP TIMER will not be activated if the LCD TV is turned off with MAIN POWER on the main unit.

#### NOTE >

- When you set "WAKE-UP TIMER", the POWER indicator lights up orange while in the standby mode.
- Be sure to adjust the clock with "CLOCK" in "SETUP" before setting "SLEEP TIMER" and "WAKE-UP TIMER".
  You can output the picture and sound of the external device with the WAKE-UP TIMER function. Make sure that the external device
- turns on at the time you specified. The CHANNEL setting for "WAKE-UP TIMER" changes in the following order: COMPONENT $\rightarrow$ AV1 $\rightarrow$ AV2 $\rightarrow$ TV (AIR or CABLE)\* The skipped channels cannot be selected.
- When not using LCD TV set for a long period of time, either turn the main power off or set "WAKE-UP TIMER" to "OFF".
  When "WAKE-UP TIMER" has been set to "ON", the TV is turned
- on at the set time every day until it is set to "OFF"
- · After the TV has been turned "ON" by "WAKE-UP TIMER", "SLEEP TIMER" is automatically set to 120 minutes for safety reason.
- · The time that is currently set can be checked on the screen by pressing **DISPLAY**.
- When the time set for "WAKE-UP TIMER" is reached when the power is on, the TV changes to the set channel. The volume does not change at this time.

#### **NO SIGNAL OFF**

Power control setting allows you to save energy. When set to "ENABLE", the power will automatically shut down if no signal inputs for 5 minutes.

- 1 Repeat steps 1 and 2 of WAKE-UP TIMER. 2 Press ▲/▼ to select "NO SIGNAL OFF", and press ENTER. MENU [SZOPTION ··· N PICTURE AUDIO <u>SETUP</u> OPTION SIGNAL O F F OFF 3 Press  $\blacktriangle/ \nabla$  to select "ENABLE", and press ENTER. SIGNAL OFF1 SELECT OPTION ··· N C ENABLE DISABLE
  - 4 Press MENU to exit.

#### NOTE >

"DISABLE" is factory preset value.

### **NO OPERATION OFF**

When set to "ENABLE", the power will automatically shut down if there is no operation for 3 hours.

- 1 Repeat steps 1 and 2 of WAKE-UP TIMER.
- 2 Press ▲/▼ to select "NO OPERATION OFF", and press ENTER.

PICTURE AUDIO SETUP OPTION O OPERATION OFF

3 Press  $\blacktriangle/\nabla$  to select "ENABLE", and press ENTER.

I N	ΙE	N		[[	<b>3</b> /	]0 P	ΤĿ	ON	٠N	10	0	Ρ	Е	R		0	Ν	0		
3 E		Ε	С	n		0	Ρ	Т		D N										
Г	Е	Ν	A	B	Т	F	_													
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Г	D		•	٨	D	1	E													
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- 5 minutes before the power shuts down, remaining time is displayed every minute.
- Press MENU to exit.

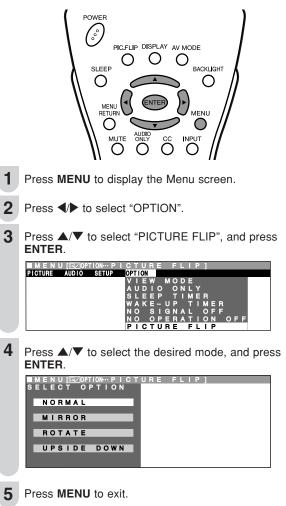
### 

"DISABLE" is factory preset value.

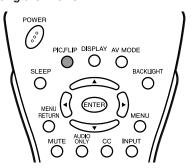
### **PICTURE FLIP**

You can set the orientation of the picture.

#### Setting the PICTURE FLIP on the MENU screen



#### Directly setting the PICTURE FLIP

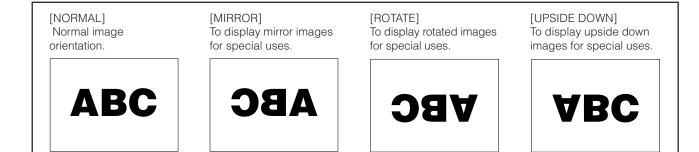


- **1** Press **PIC.FLIP** to display the PICTURE FLIP screen.
- 2 Press PIC.FLIP to change the setting.

PICTURE FLIP [NORMAL] → PICTURE FLIP [MIRROR] -

– PICTURE FLIP [UPSIDE DOWN] ← PICTURE FLIP [ROTATE] ◀

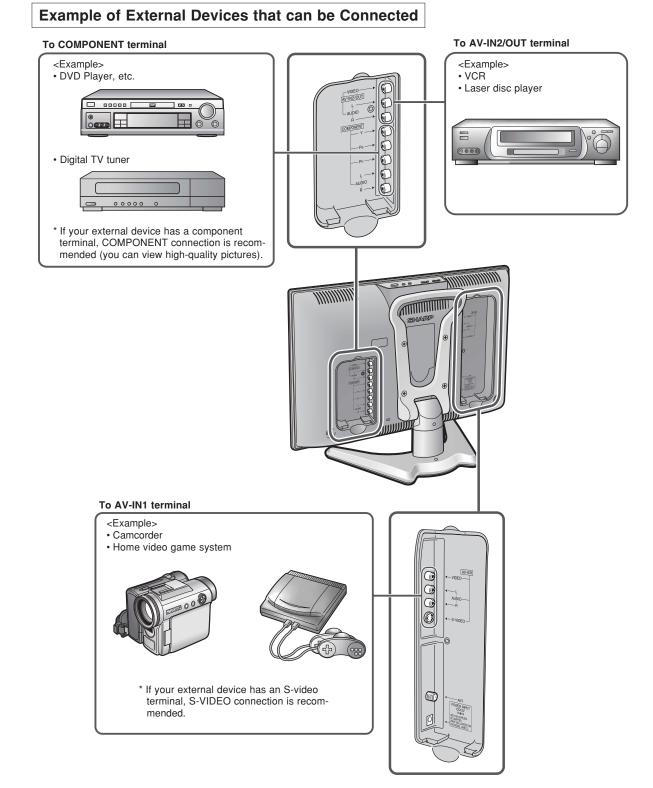
- The PICTURE FLIP screen automatically disappears in 3 seconds.
- [NORMAL]: normal image [MIRROR]: mirror image [ROTATE]: rotated image [UPSIDE DOWN]: upside down image



# **Connecting External Devices**

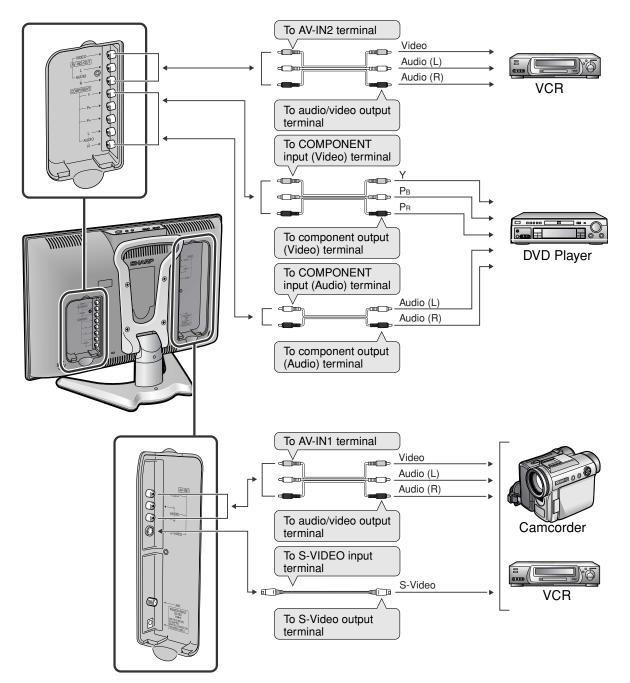
You can enjoy picture and sound by connecting a VCR or a home video game system to the terminals located on the rear of the main unit.

When connecting an external device, turn off the MAIN POWER of the main unit first to prevent any possible damage.



- PC connection is not possible.
- · For the cable, use a commercially available audio/video cable.
- Only connect audio/video signals to AV-IN1 and AV-IN2 terminals. Connecting other signals may result in a malfunction.
- AV-IN1 has 2 video input terminals: VIDEO and S-VIDEO. When you connect external devices to both terminals (and if you select "AV-IN1"), you can only view pictures from the S-VIDEO terminal. To view the picture from the VIDEO terminal, do not connect any external device to the S-VIDEO terminal.
- · For more information about external device connections, see the manuals of your external devices.

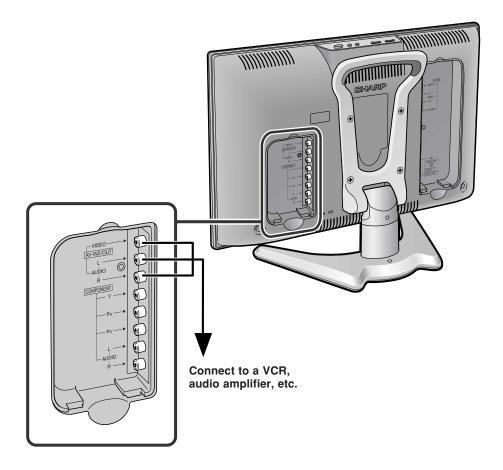
#### Connecting a VCR, DVD Player or a Camcorder to AV-IN1/AV-IN2/COMPONENT



- If your VCR (or other external devices) has an S-video terminal, S-VIDEO connection is recommended. (Use an S-video cable.)
- When you connect external devices to both S-VIDEO and VIDEO terminals (and if you select "AV-IN1"), you can only view pictures from the S-VIDEO terminal.
- You cannot view multiple or synthesized pictures by connecting two or more external devices. When connecting an external device, use care to connect the video and audio cables to the corresponding terminals.

### **Outputting Video and Audio (Video Output)**

- You can output video and audio signals from the TV set through the AV output terminals (AV-OUT).
- When using AV-IN2/OUT as an output terminal, select "SETUP" in the Menu and set "AV2 IN/OUT" to "OUT". (See page 27.)
- The factory setting for "AV2 IN/OUT" is "IN".



- The AV-IN2/OUT terminal has 2 output modes (see page 27).
- When using the S-VIDEO input for AV-IN1, no video output will be made to the AV output terminal, but audio output will be made for connection to external audio systems.
- When using the S-VIDEO input for AV-IN1, or Y, PB or PR input for COMPONENT, no video output will be made to the AV output terminal, but audio output will be made for connection to external audio systems.

# Troubleshooting

Before calling for repair services, make the following checks for possible remedies to the encountered symptoms.

# LCD TV set

Proble	əm	Check item	Reference page
Sound	There is no picture or	<ul> <li>Make sure the AC adapter is properly inserted in the power outlet.</li> <li>Reception other than those of broadcasting stations can be considered.</li> </ul>	10 —
	sound.	<ul> <li>Make sure the input mode is set to TV.</li> <li>Make sure the MAIN POWER switch of the main unit is on.</li> </ul>	17 17
Picture	There is no picture. There is no picture from	<ul> <li>Make sure the BRIGHTNESS is properly adjusted.</li> <li>Fluorescent lamp may have reached the end of service life.</li> </ul>	23 44
////	AV-IN1 or AV-IN2.	<ul> <li>Make sure the S-VIDEO terminal has nothing connected.</li> <li>Make sure the AUDIO ONLY is not set to ON.</li> </ul>	40 35
?	There is no sound.	<ul> <li>Make sure the volume is not set to minimum.</li> <li>Make sure the sound is not set to mute.</li> <li>Make sure that headphones are not connected.</li> </ul>	18 18 11
	There is no picture or sound, just noise.	<ul> <li>Make sure the antenna cable is properly connected.</li> <li>Bad reception could be the problem.</li> </ul>	9, 10 _
	Picture is not clear.	<ul> <li>Make sure the antenna cable is properly connected.</li> <li>Bad reception could be the problem.</li> </ul>	9, 10 _
	Picture is light or improperly tinted.	<ul> <li>Check color adjustment.</li> <li>Check COLOR SYSTEM setting.</li> </ul>	23 27
	The picture is too dark.	<ul> <li>Press the BACKLIGHT button or set the BACKLIGHT or BRIGHTNESS settings.</li> <li>Check CONTRAST and BRIGHTNESS adjustment.</li> <li>Fluorescent lamp may have reached the end of service life.</li> </ul>	22, 23 23 44
Remote control o	does not work.	<ul> <li>Check the batteries of the remote control.</li> <li>Make sure the remote sensor window is not under strong lighting.</li> </ul>	8 8
The clock (AUTC cannot be set.	O CLOCK)	<ul> <li>The broadcasted EDS signal may be weak. Check the antenna.</li> <li>Carry out EZ SETUP or Setting the CLOCK again.</li> <li>If EDS signal is not sent, set the clock using MANUAL CLOCK Setting.</li> </ul>	– 14-16, 26 16
Unit cannot be o	perated.	• External influences such as lightning, static electricity, etc., may cause improper operation. In this case, operate the unit after first turning the power off the LCD TV set, or unplugging the AC cord and re-plugging it in after 1 or 2 minutes.	-

Before calling for repair services, make the following checks for possible remedies to the encountered symptoms.

# Antenna

Probl	em	Check item
	The picture is not sharp.	<ul> <li>The reception may be weak.</li> <li>The quality of the broadcast may also be bad.</li> <li>Make sure the antenna is facing the right direction.</li> <li>Make sure the outside antenna is connected.</li> </ul>
	The picture moves.	
	The picture is doubled or tripled.	<ul> <li>Make sure the antenna is facing the right direction.</li> <li>There may be reflected electric waves from mountains or buildings.</li> </ul>
	The picture is spotted.	<ul> <li>There may be interference from automobiles, trains, high voltage lines, neon lights, etc.</li> <li>There may be interference between the antenna cable and AC cord. Try positioning them further apart.</li> </ul>
	There are stripes on the screen or colors fade.	<ul> <li>Is the unit receiving interference from other devices? Transmission antennas of radio broadcasting stations, transmission antennas of amateur radios and cellular phones may also cause interfer- ence.</li> <li>Use the unit as far apart as possible from devices that may cause possible interference.</li> </ul>

#### Cautions regarding use in high and low temperature environments

When the unit is used in a low temperature space (e.g. room, office), the picture may leave trails or appear slightly delayed. This is not a malfunction, and the unit will recover when the temperature returns to normal. Do not leave the unit in a hot or cold location. Also, do not leave the unit in a location exposed to direct sunlight or near a heater, as this may cause the cabinet to deform and the LCD panel to malfunction. Storage temperature:  $-4^{\circ}F$  to  $+140^{\circ}F$  ( $-20^{\circ}C$  to  $+60^{\circ}C$ ) .

# **Specifications**

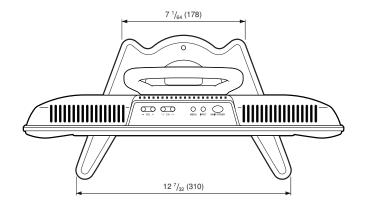
Items	Model	LC-13B6U	LC-15B6U					
LCD panel		13" Advanced Super View & BLACK TFT LCD 15" Advanced Super View & BLACK TFT L						
Number of do	ots	921,600 dots VGA						
Video color s	ystems	N358, N443, PAL, PAL-M, PAL-N, SECAM,	PAL-60					
	TV Standard (CCIR)	NTSC/PAL-M/PAL-N						
-	TV Tuning System	PLL 181 ch.						
TV function	STEREO	MTS+SAP						
	CATV	125 ch.						
Y/C FILTER		3D Y/C FILTER						
Brightness		430 cd/m <sup>2</sup>						
Lamp life (Flu	Jorescent lamp)	60,000 hours*						
Viewing angle	es	H: 170° V: 170°						
Audio amplifie	er	2.1 W × 2						
Speakers		1 <sup>37</sup> / <sub>64</sub> × 2 <sup>3</sup> / <sub>4</sub> in. (4 × 7cm), 2 pcs.						
	AV-IN1	AV-IN1, S-VIDEO-IN						
	AV-IN2	AV-IN2/AV-OUT						
Terminals	COMPONENT	COMPONENT-IN, AUDIO-IN						
	Antenna	F-Type						
	Headphone	Mini-jack for stereo (ø3.5 mm)						
OSD languag	le	English/Spanish/French						
Power supply	,	DC 12V, AC 110-240V, 50/60Hz (AC adapted	er), AC 110-125V (AC cord)					
Power consul	mption	37 W (0.5 W standby): AC 120V	40 W (0.5 W standby): AC 120V					
		31 W: DC 12V	34 W: DC 12V					
Weight		9.7 lbs. (4.4 kg), w/o accessories 11.5 lbs. (5.2 kg), w/o accessories						
Accessories		Remote control, Batteries ( $\times$ 2), Antenna cable, AC adapter, AC cord, Cable clamps ( $\times$ 2), Operation manual						

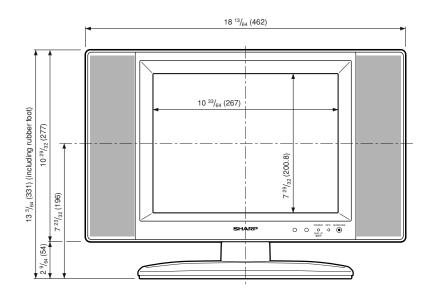
\* Typical time for power output decrease of about one-half assuming continuous use in a room with normal lighting, normal brightness and temperature at 77°F/25°C

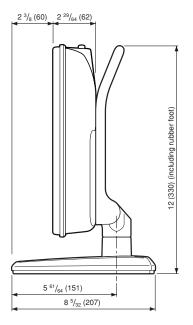
As a part of policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

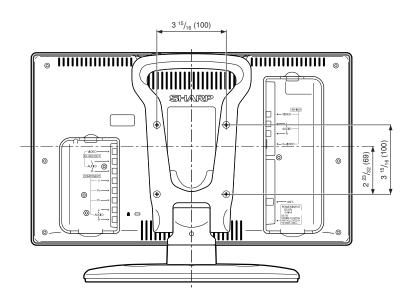
# LC-13B6U

Unit: inch (mm)



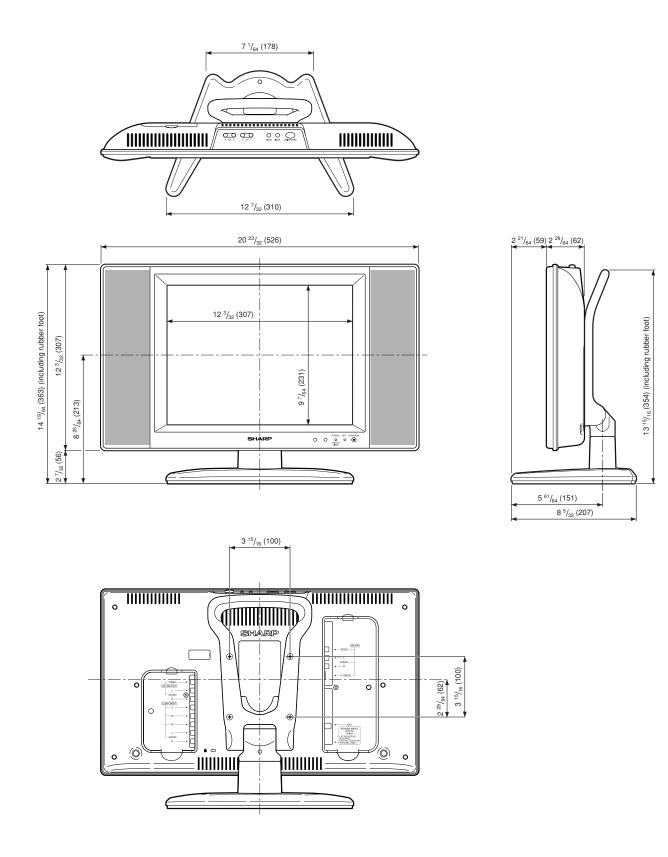






### LC-15B6U

Unit: inch (mm)



# **Calling for Service**

For location of the nearest Sharp Authorized Service, or to obtain product literature, accessories, supplies, or customer assistance, please call 1-800-BE-SHARP.

# LIMITED WARRANTY

#### CONSUMER LIMITED WARRANTY

SHARP ELECTRONICS CORPORATION warrants to the first consumer purchaser that this Sharp brand product (the "Product"), when shipped in its original container, will be free from defective workmanship and materials, and agrees that it will, at its option, either repair the defect or replace the defective Product or part thereof with a new or remanufactured equivalent at no charge to the purchaser for parts or labor for the period(s) set forth below.

This warranty does not apply to any appearance items of the Product nor to the additional excluded item(s) set forth below nor to any Product the exterior of which has been damaged or defaced, which has been subjected to improper voltage or other misuse, abnormal service or handling, or which has been altered or modified in design or construction.

In order to enforce the rights under this limited warranty, the purchaser should follow the steps set forth below and provide proof of purchase to the servicer.

The limited warranty described herein is in addition to whatever implied warranties may be granted to purchasers by law. ALL IMPLIED WARRANTIES INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE ARE LIMITED TO THE PERIOD(S) FROM THE DATE OF PURCHASE SET FORTH BELOW. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

Neither the sales personnel of the seller nor any other person is authorized to make any warranties other than those described herein, or to extend the duration of any warranties beyond the time period described herein on behalf of Sharp.

The warranties described herein shall be the sole and exclusive warranties granted by Sharp and shall be the sole and exclusive remedy available to the purchaser. Correction of defects, in the manner and for the period of time described herein, shall constitute complete fulfillment of all liabilities and responsibilities of Sharp to the purchaser with respect to the Product, and shall constitute full satisfaction of all claims, whether based on contract, negligence, strict liability or otherwise. In no event shall Sharp be liable, or in any way responsible, for any damages or defects in the Product which were caused by repairs or attempted repairs performed by anyone other than an authorized servicer. Nor shall Sharp be liable or in any way responsible for any incidental or consequential economic or property damage. Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

#### **Model Specific Section**

Your Product Model Number & Description:	LC-13B6U/LC-15B6U LCD Color Television						
	(Be sure to have this information available when you need service for your Product.)						
Warranty Period for this Product:	One (1) year parts and labor from the date of purchase.						
Additional Item(s) Excluded from Warranty Coverage (if any):	Non-rechargeable batteries.						
Where to Obtain Service:	From a Sharp Authorized Servicer located in the United States. To find the location of the nearest Sharp Authorized Servicer, call Sharp toll free at 1-800-BE-SHARP.						
What to do to Obtain Service:	Ship prepaid or carry in your Product to a Sharp Authorized Servicer. Be sure to have Proof of Purchase available. If you ship the Product, be sure it is insured and packaged securely.						

TO OBTAIN PRODUCT INFORMATION, CALL 1-800-BE-SHARP OR VISIT www.sharpusa.com



Sharp Plaza, Mahwah, New Jersey 07430-2135

### **SHARP CORPORATION**

VALID IN CANADA ONLY

# SHARP

# LIMITED WARRANTY

Consumer Electronics Products

# Congratulations on your purchase!

Sharp Electronics of Canada Ltd. (hereinafter called "Sharp") gives the following express warranty to the first consumer purchaser for this Sharp brand product, when shipped in its original container and sold or distributed in Canada by Sharp or by an Authorized Sharp Dealer:

Sharp warrants that this product is free, under normal use and maintenance, from any defects in material and workmanship. If any such defects should be found in this product within the applicable warranty period, Sharp shall, at its option, repair or replace the product as specified herein.

This warranty shall not apply to:

- (a) Any defects caused or repairs required as a result of abusive operation, negligence, accident, improper installation or inappropriate use as outlined in the owner's manual.
- (b) Any Sharp product tampered with, modified, adjusted or repaired by any party other than Sharp, Sharp's Authorized Service Centres or Sharp's Authorized Servicing Dealers.
- (c) Damage caused or repairs required as a result of the use with items not specified or approved by Sharp, including but not limited to head cleaning tapes and chemical cleaning agents.
- (d) Any replacement of accessories, glassware, consumable or peripheral items required through normal use of the product including but not limited to earphones, remote controls, AC adapters, batteries, temperature probe, stylus, trays, filters, belts, ribbons, cables and paper.
- (e) Any cosmetic damage to the surface or exterior that has been defaced or caused by normal wear and tear.
- (f) Any damage caused by external or environmental conditions, including but not limited to transmission line/power line voltage or liquid spillage.
- (g) Any product received without appropriate model, serial number and CSA/cUL markings.
- (h) Any products used for rental or commercial purposes.
- (i) Any installation, setup and/or programming charges.

Should this Sharp product fail to operate during the warranty period, warranty service may be obtained upon delivery of the Sharp product together with proof of purchase and a copy of this LIMITED WARRANTY statement to an Authorized Sharp Service Centre or an Authorized Sharp Servicing Dealer. In home warranty service may be provided at Sharp's discretion on any Sharp television with the screen size of 27" or larger and on any Sharp Over-the-Range Microwave Oven.

This warranty constitutes the entire express warranty granted by Sharp and no other dealer, service centre or their agent or employee is authorized to extend, enlarge or transfer this warranty on behalf of Sharp. To the extent the law permits, Sharp disclaims any and all liability for direct or indirect damages or losses or for any incidental, special or consequential damages or loss of profits resulting from a defect in material or workmanship relating to the product, including damages for the loss of time or use of this Sharp product or the loss of information. The purchaser will be responsible for any removal, reinstallation, transportation and insurance costs incurred. Correction of defects, in the manner and period of time described herein, constitute complete fulfillment of all obligations and responsibilities of Sharp to the purchaser with respect to the product and shall constitute full satisfaction of all claims, whether based on contract, negligence, strict liability or otherwise.

#### WARRANTY PERIODS:

Audio Products Camcorder DVD Products Projector LCD & Plasma Display TV Microwave Oven Television Products VCR Products Vacuum Cleaner Parts & Labour (exceptions noted) 1 year 1 year 1 year 1 year (lamp 90 days) 1 year (magnetron component-4 additional years) 1 year (picture tube component-1 additional year) 1 year 1 year

To obtain the name and address of the nearest Authorized Sharp Service Centre or Dealer, please contact: SHARP ELECTRONICS OF CANADA LTD. 335 Britannia Road East, Mississauga, Ontario L4Z 1W9

For more information on this Warranty, Sharp Extended Warranty Offers, Sharp Canada Products, Accessory Sales, Dealer or Service Locations, please call (905) 568-7140 Visit our Web site: www.sharp.ca

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Revision 04/22/03